

**Disclaimer:** Section 508 of the Rehabilitation Act of 1973 (29 U.S.C. § 794d), as amended in 1998, requires that the information in federal documents be accessible to individuals with disabilities. CHIPS for America, U.S. Department of Commerce, has made every effort to ensure that the information in the Micron Semiconductor Manufacturing Project Final Environmental Impact Statement is accessible; however, some Appendix elements may not be fully accessible. Individuals with disabilities are encouraged to contact David Frenkel, Environmental Division Director by phone at (240) 204-1960 or by email at [david.frenkel@chips.gov](mailto:david.frenkel@chips.gov) for access to the information contained in this document.

**APPENDIX E**  
**GEOLOGY, SOILS, AND TOPOGRAPHY**

**Appendix E-1**  
**Geology, Soils, And Topography Methodology**

## **E-1 Geology, Soils, and Topography Methodology**

This section defines the study area for Geology, Soils, and Topography and explains the methodology and information sources used to describe the affected environment. Figure E-1 on the next page shows the study area for geology, soils, and topography. The study area includes the proposed 1,377-acre Micron Campus, 38-acre Rail Spur Site, and 31-acre Childcare Site.

The study area also includes the proposed Connected Actions, including new structures at the National Grid Clay Substation, the OCWA Lake Ontario Water Treatment Plant, the OCWA Terminal Campus, and the proposed new IWWTP at the Oak Orchard site, as well as linear improvements, including construction of electrical transmission lines, a natural gas line, water transmission lines, and an industrial wastewater conveyance. The Connected Actions have been assessed as part of the study area, taking into consideration the surrounding geology, topographic information available online, and nearby unique geological features.

Finally, the Connected Actions would include extensions of existing fiber optic lines along NYS Route 31 and Caughdenoy Road to the Micron Campus built along cable routes and directly buried or pulled through existing conduits to avoid further ground disturbance. The extensions of the existing fiber optic lines are not considered in the study area because they would be buried and stabilized underground, avoiding any disturbance to surrounding geology and soils.

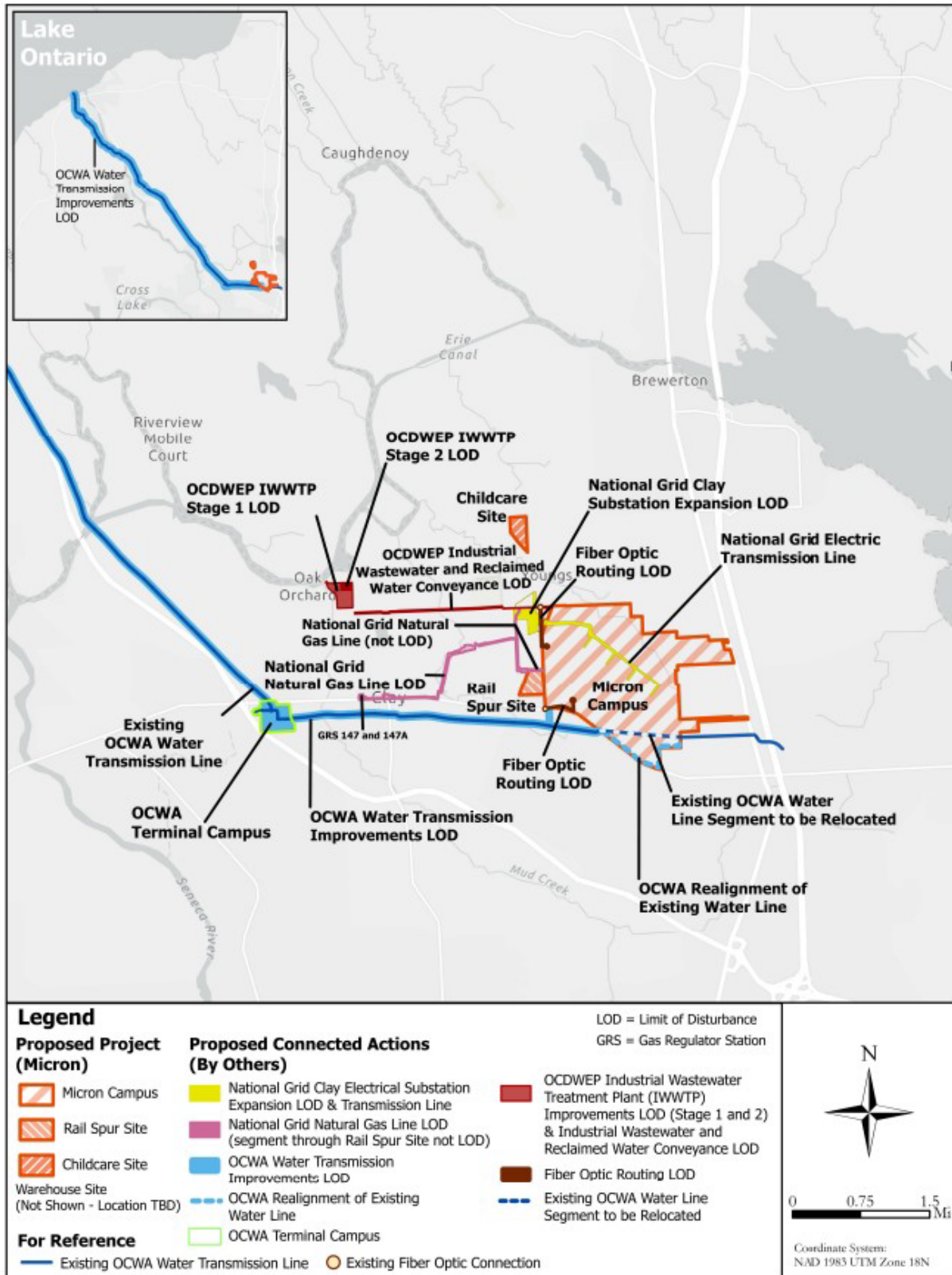
The methodology for Section 3.2 (Geology, Soils, and Topography) relies on a combination of an in-depth desktop analysis as well as site-specific data and geotechnical analysis. The geotechnical analyses were prepared by CME and Langan, and details boring investigations completed by CME in the Spring and Fall of 2023 as well as the Spring of 2024, and additional investigations completed by Langan in Spring 2025(Appendix E-4).

The first geotechnical report details findings from boring investigations from Phase 1 and Phase 2 explorations conducted by CME in May and June 2023, which included test borings, cone penetration testing, groundwater monitoring wells, test pits, and laboratory testing for the proposed Micron Campus site. The findings from these investigations revealed shallow depth to groundwater as well as soils with high water content. The second geotechnical report details investigations carried out in a Spring 2024 Phase 3 exploration. This investigation included test borings, auger probes, groundwater monitoring wells, infiltration testing, test pits, field soil resistivity testing, and laboratory testing. The investigation revealed similar findings to the first report, as well as compressible soils present at the site. A third geotechnical report details a subsurface investigation which was conducted at the proposed Childcare Site in September 2023. This investigation included test borings, test pits, and infiltration testing. The results of this investigation revealed compressible soils at the site. The fourth geotechnical report details a subsurface investigation which was conducted for Phase 1 and 2 of the WPCP between April and May 2025. This investigation included test borings, cone penetration tests, test pits, crosshole seismic logging, thermal resistivity tests, electrical resistivity tests, and seismic refraction surveys. The results of this investigation are consistent with previous geotechnical data.

Site-specific analysis relied on field sampling data, topographic surveys, and soil borings (including depth to groundwater), the Phase 1A Archaeological Survey prepared by AKRF, Inc., and information from publicly available sources, including U.S. Geological Survey maps for the Finger Lakes Region (bedrock and surficial geologic maps) and the U.S. Department of

Agriculture Natural Resources Conservation Service Web Soil Survey database, the Soil Survey Geographic (SSURGO) database, and Official Soil Series Descriptions (Appendix E-2).

Figure E-1 Study Area



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community; Sources: Esri, TomTom, Garmin, (c) OpenStreetMap contributors, and the GIS User Community

## **Appendix E-2 Soil Type Descriptions**

## **E-2 Soil Type Descriptions**

### **Niagara Silt Loam (NgA)**

These very deep, somewhat poorly drained soils formed in silty glacio-lacustrine deposits. The soils occur in level to slightly concave areas on lake plains and in valleys. The surface layer is very dark grayish brown, 5 inches thick. The subsoil is dark grayish brown, moderately blocky in structure, and 17 inches thick. The substratum is dark grayish brown, very fine sandy loam and is 41 inches thick.

This soil map unit is found throughout the Proposed Project area but is mostly concentrated in the central and northern sections of the proposed Micron Campus. Niagara Silt Loam covers 14.9 acres of the Rail Spur Site and a small section in the northeastern corner of the Childcare Site. In total, it covers 522 acres of the Proposed Project area.

### **Collamer Silt Loam (ChA, ChB)**

These deep to very deep, moderately well drained, nearly level soils formed in silty glacio-lacustrine sediments. They occur on lake plains and till plains that have a thick mantle of lake sediments. The surface layer is dark grayish brown silt loam, 12 inches thick. The subsoil is 21 inches thick. The upper 6 inches of the subsoil is brown and dark yellowish brown, moderately coarse silt loam; the deeper portion of the subsoil is brown, moderate medium and coarse, 12 inches thick. The substratum is yellowish brown, amorphous “massive” silt loam and ranges from 33 to 72 inches thick.

This soil map unit is found throughout the Proposed Project area, concentrated in the central and southern portions of the proposed Micron Campus, and covering approximately 99.4 percent of the soil at the proposed Childcare Site. Collamer Silt Loam (ChA and ChB) covers approximately 433 acres of the proposed Micron Campus and 29.8 acres of the proposed Childcare Site, or 462.8 acres of the Proposed Project area.

### **Canandaigua Mucky Silt Loam (Cd)**

These very deep, poorly to very poorly drained hydric soils formed in silty glacio-lacustrine sediments. They occur on lowland lake plains and in depressional areas on glaciated uplands. The surface layer is very dark gray, moderately fine to very fine silt loam, and is 8 inches thick. The subsoil is light brownish gray to gray, very coarse to plate-like in structure and is 22 inches thick. The substratum is gray and light brown, very fine to massive silt and sandy loam and is 42 inches thick. This soil map unit is found in pockets throughout the Proposed Project area. In total, it covers 82.4 acres of the Proposed Project area.

### **Palms Muck (Pb)**

These very deep, very poorly drained hydric soils formed in herbaceous organic materials. They occur in the underlying loamy deposits in closed depressions on moraines, lake plains, till plains, outwash plains, and hillside seep areas, and on backswamps of flood plains. The surface layer is black, broken face and rubbed muck, slightly sticky, and is 14 inches thick. The subsoil is black, broken face and rubbed muck, slightly sticky, and is 21 inches thick. The substratum is gray and dark yellowish brown, massive clay loam and is 45 inches thick. This soil map unit is



concentrated in the northern central section of the proposed Micron Campus. In total, it covers 73.5 acres of the Proposed Project area.

**Hilton Loam (H1A, H1B)**

These very deep, moderately well drained soils formed in Wisconsin age till derived from sandstone and limestone. They occur as nearly level to sloping soils on till plains and glaciated dissected plateaus. The surface layer is dark grayish brown and light brownish gray granular loam and is 9 inches thick. The subsoil is reddish brown, gravelly, moderately blocky loam and is 19 inches thick. The substratum is reddish brown to brown, gravelly, moderately plate-like to massive in structure and is 36 inches thick. This soil map unit is found in pockets throughout the Proposed Project area. In total, it covers 73.3 acres of the Proposed Project area.

**Cut and Fill (CFL)**

This soil type is classified by construction material brought into the area for the purpose of site grading. According to the NYSDEC regulations for fill, these materials consist of soil, sand, gravel, or rock as well as non-putrescible non-soil constituents.

**Scriba Gravelly Fine Sandy Loam (ScB, ScC)**

These very deep, somewhat poorly drained hydric soils are derived from loamy glacial till. The slope of these soils typically ranges from 0 to 15 percent. The surface layer is very dark grayish brown gravelly loam, up to 9 inches thick. The subsoil is a grayish brown gravelly fine sandy loam, 9 to 13 inches thick. The substratum is brown, very gravelly fine sandy loam 48 to 72 inches thick. This soil map unit is found at the Lake Ontario Water Treatment Plant. It covers approximately 16.5 acres of the Connected Action sites.

**Urban Land (Ub)**

Urban land, like cut and fill is a soil classification used to describe the soils beneath highly urbanized areas. These areas consist of a mix of concrete, asphalt, cut and fill materials, and a mix of local soil types. Approximately 14.4 acres of the Connected Action sites comprise this soil map unit type.

**Ira Gravelly Fine Sandy Loam (IrB, IrC)**

These coarse to loamy, mixed, somewhat poorly drained hydric soils are from the mesic family of the Typic Fragiochrepts. The surface layer is a dark grayish brown, fine, gravelly sandy loam, up to 8 inches thick. The substratum is a yellowish brown fine sandy loam with a blocky structure, about 13 inches thick. The substratum is a grayish brown gravelly fine sandy loam which is slightly alkaline, and approximately 50 inches thick. This soil map unit is found at the OCWA Terminal Campus. It covers approximately 9.7 acres of the Connected Action sites.

## References

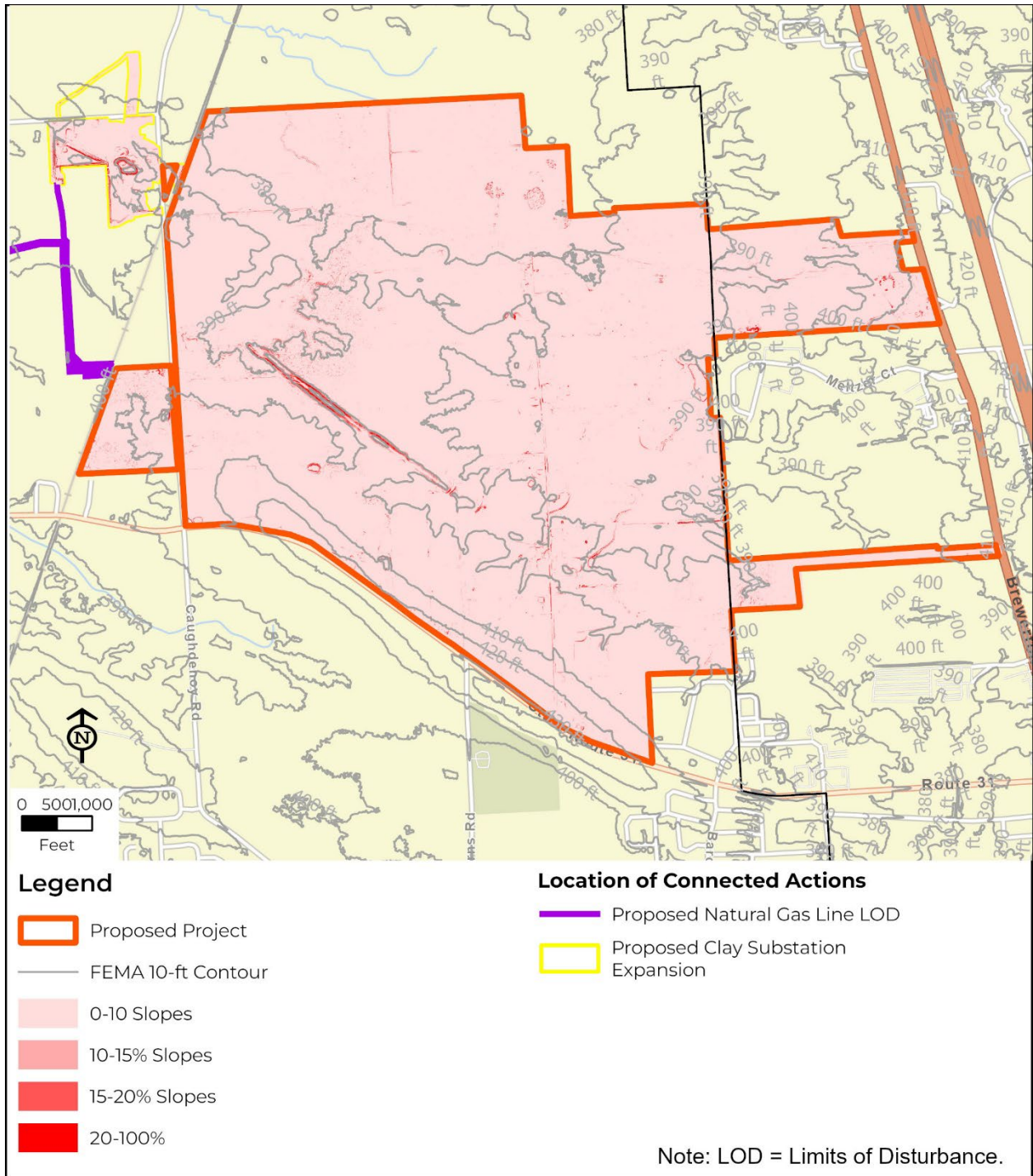
New York State Department of Environmental Conservation (NYSDEC). (2023). *Parts 360-366 and 369, Solid Waste Management*. <https://dec.ny.gov/sites/default/files/2024-10/part360fulltextadopt.pdf>. Accessed December 5, 2024.

Soil Survey Staff, Natural Resources Conservation Service (NRCS), United States Department of Agriculture (USDA). Official Soil Series Descriptions. Available online. Accessed October 16, 2023.

Soil Survey Staff, Natural Resources Conservation Service (NRCS), United States Department of Agriculture (USDA). Web Soil Survey. Available online. Accessed October 16, 2023.

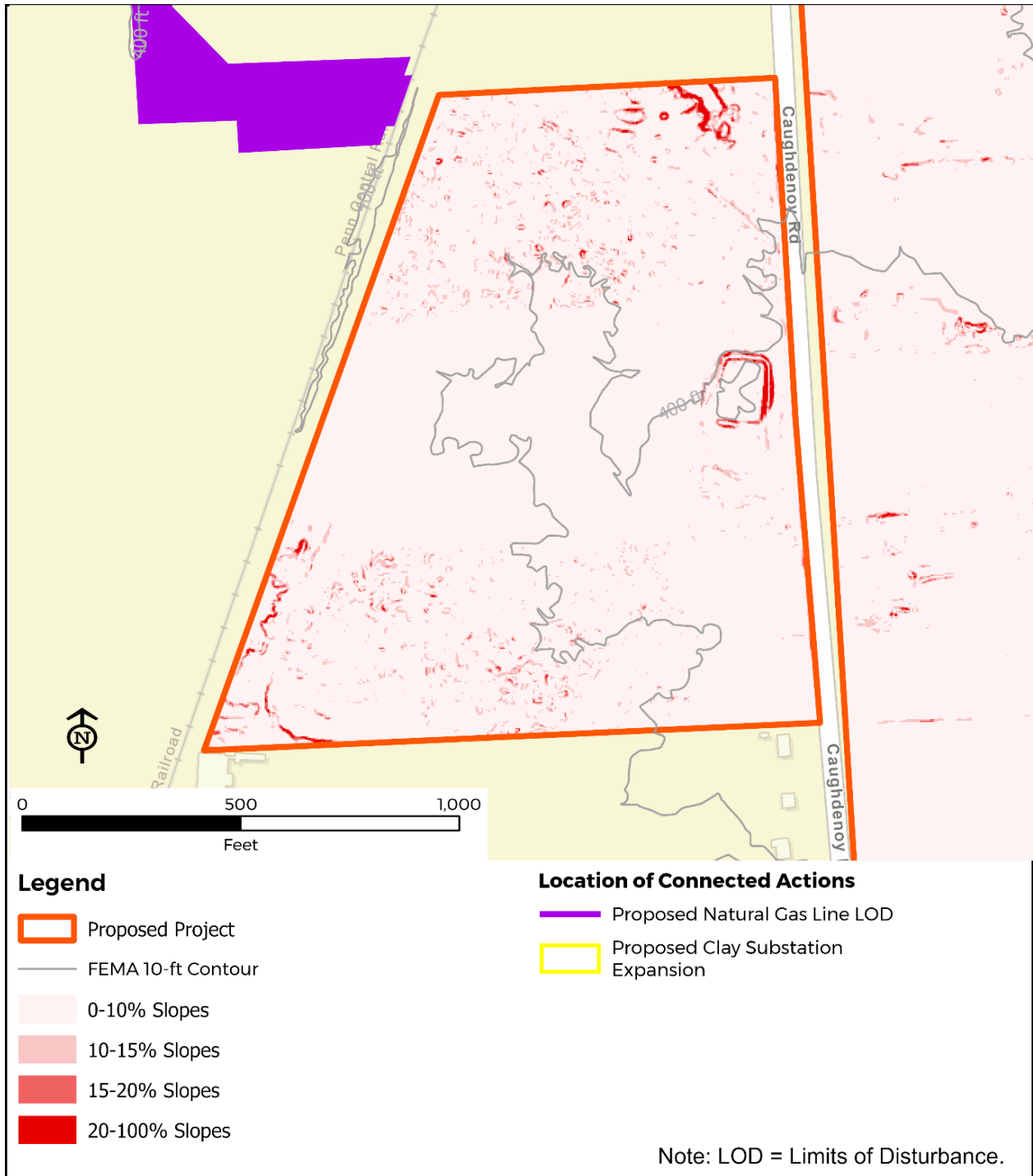
## **Appendix E-3 Topographical Figures**

**Figure E-2 Topography at Proposed Micron Campus**



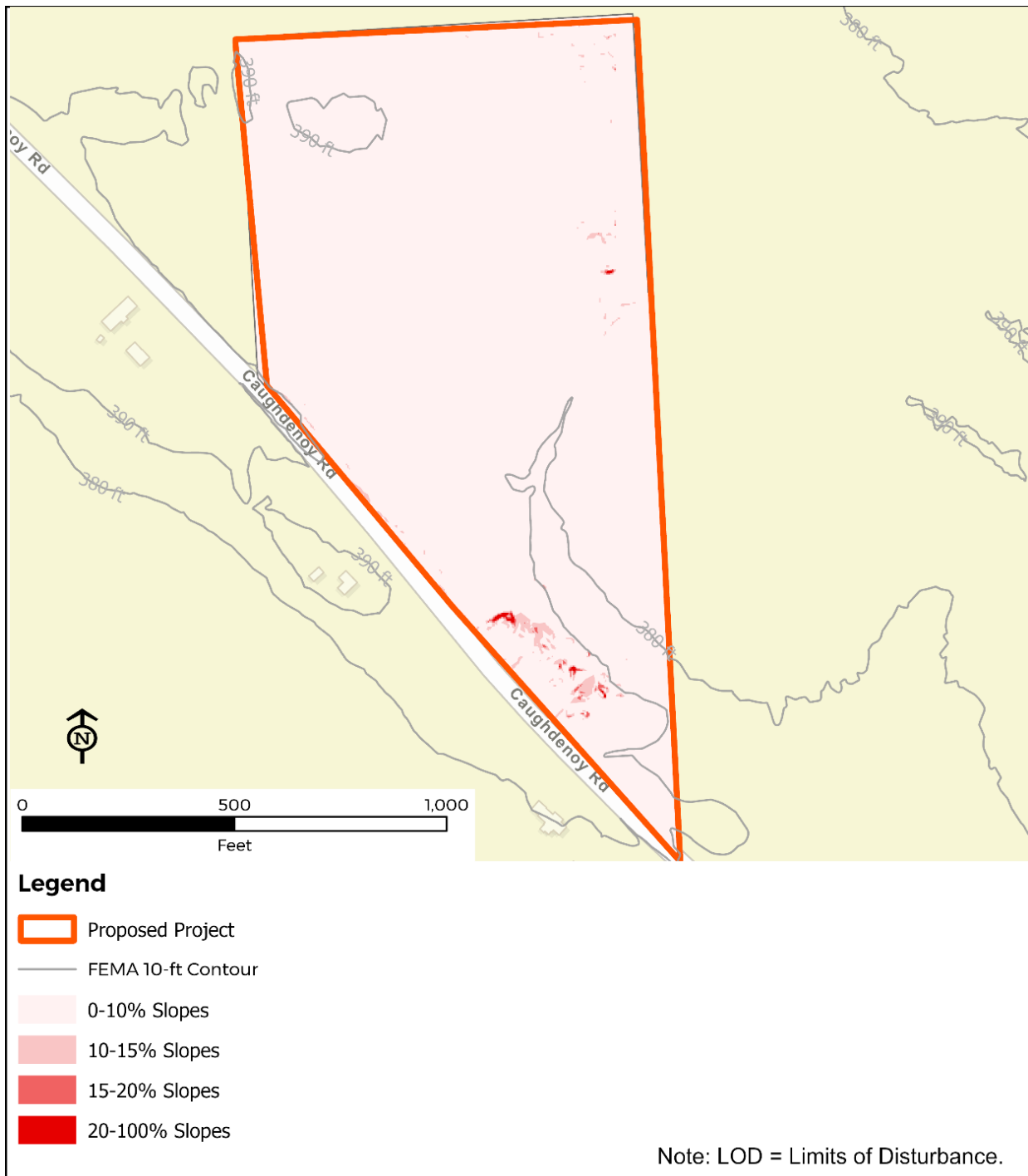
Source: 1 Meter DEM Index (FEMA) retrieved from <https://orthos.dhSES.ny.gov>.

**Figure E-3 Topography at Proposed Rail Spur Site**



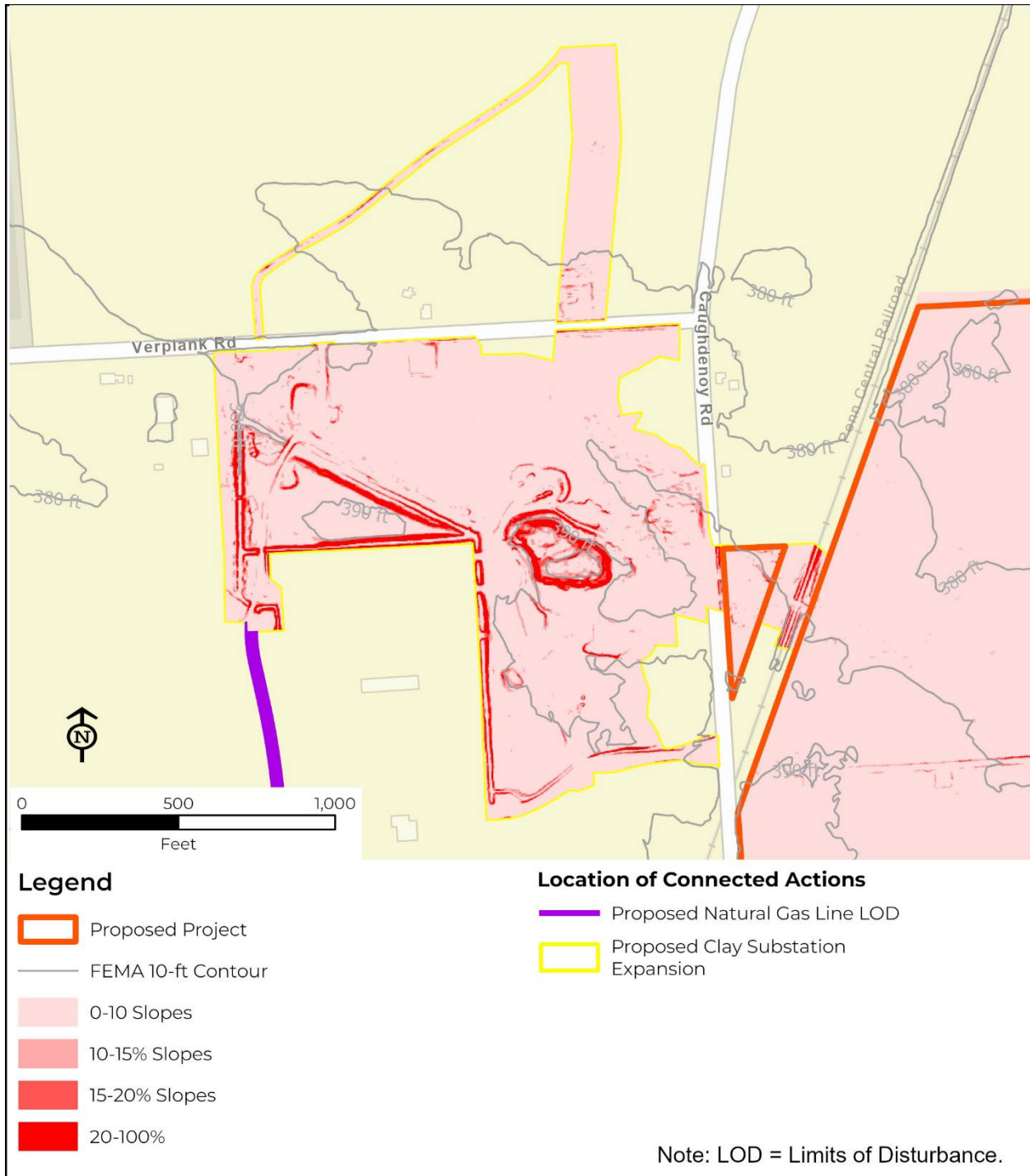
Source: 1 Meter DEM Index (FEMA) retrieved from <https://orthos.dhSES.ny.gov>.

**Figure E-4 Topography at Proposed Childcare Site**



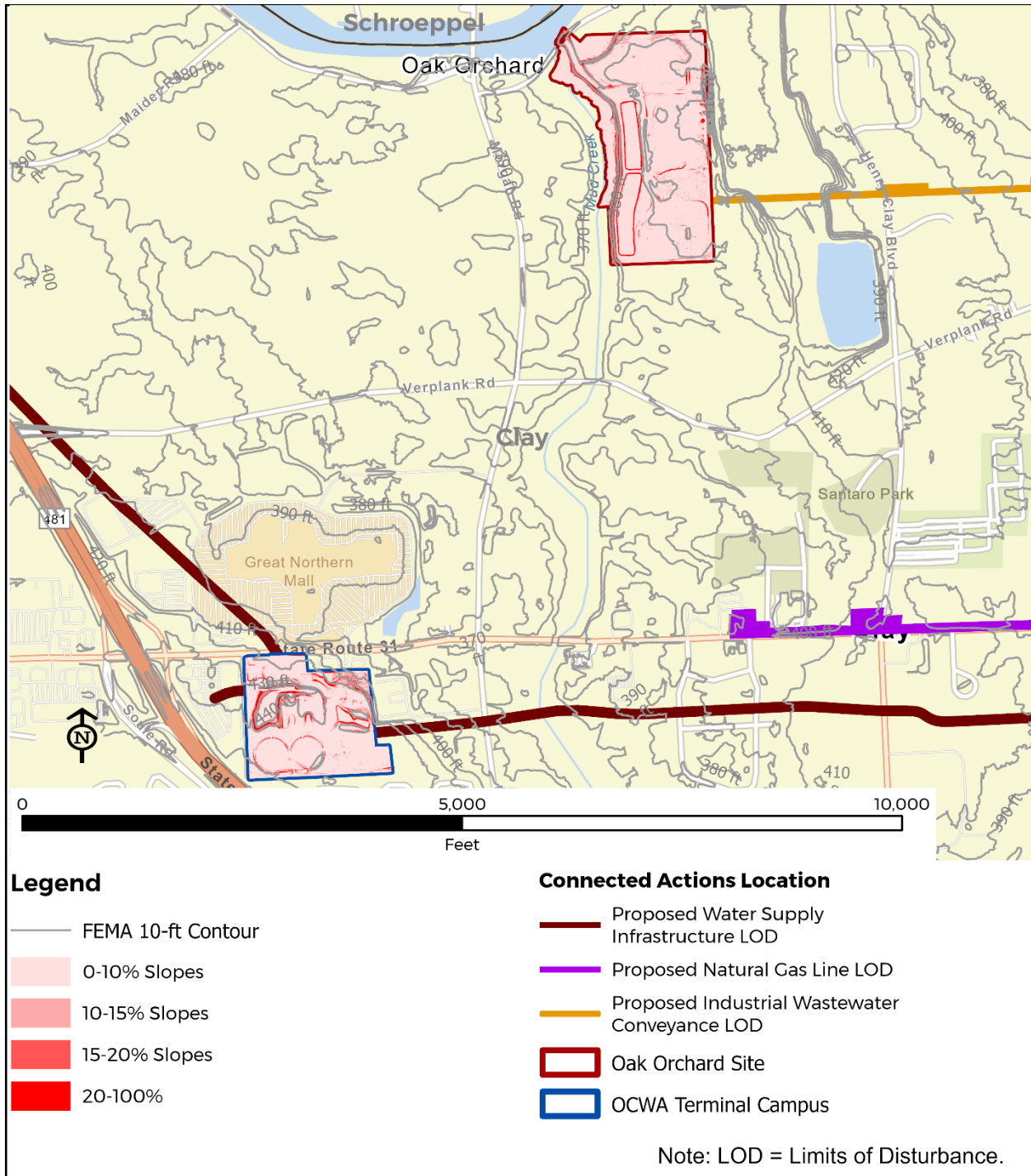
Source: 1 Meter DEM Index (FEMA) retrieved from <https://orthos.dhSES.ny.gov>.

**Figure E-5 Topography at Proposed Clay Substation Expansion Area**



Source: 1 Meter DEM Index (FEMA) retrieved from <https://orthos.dhSES.ny.gov>.

**Figure E-6 Topography at Oak Orchard Site and OCWA Terminal Campus**



Source: 1 Meter DEM Index (FEMA) retrieved from <https://orthos.dhSES.ny.gov>.



## **Appendix E-4 Geotechnical Reports**



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December 08, 2023

Ramboll (Client)  
94 New Karner Road  
Albany, New York  
Phone: 315.420.8439

Attn: Andy Philips, Sr. Project Manager  
[Andy.Philips@Ramboll.com](mailto:Andy.Philips@Ramboll.com)

Re: Geotechnical Data Report - Second Phase  
Micron Campus  
Clay, New York  
CME Report No. 28062B-03-1223  
Page 1 of 4

## 1.0 INTRODUCTION

CME Associates, Inc. (CME) was retained by Ramboll (Client) to provide subsurface exploration and geotechnical services for the subject project. In September/October 2023, CME conducted a limited subsurface exploration at the subject project site as part of the second phase exploration program.

The Scope of Basic Services and this report have been provided pursuant to CME Proposal/Agreement No.: 05.7126, Addendum 3, dated 04/07/2023, and authorized by Client via a Purchase Order (Ramboll PO # 1950006347, dated 04/14/2023). This report provides a summary of the second phase exploration activities conducted at the subject project site.

Please note, the first phase exploration at this site was conducted by CME in May/June 2023 and CME's deliverables consisted of the previously issued *Geotechnical Data Report - Revision 1*, labeled CME Report Number: 28062B-01-0523R1, dated 06/20/2023.

## 2.0 EXPLORATION METHODOLOGY

### 2.1 Exploration Layout and Utility Clearance

The exploration locations were selected by the Client and staked by Thew Associates (Thew). Following the field stakeout, CME contacted UDig NY to clear public utilities at the exploration locations. Private utilities at the exploration locations were cleared by Thew. No utility conflicts were noted at the exploration locations.

The attached *CME Exploration Location Plan* depicts the approximate locations of the explorations. Please note, said plan shows explorations completed during the first and second phase explorations. Elevation at grade at the exploration locations, along with Northing and Easting coordinates, was provided by Thew. Please see the attached *Elevation and Coordinates Tables* prepared using the survey data provided by Thew.

## 2.2 Test Borings

A total of 119 Test Borings (in addition to the first phase 60 Test Borings<sup>1</sup>) were completed by CME and subcontractors to CME. The Test Borings were advanced using either a Central Mine Equipment Model 550X (ATV-mounted), Model 55 (track-mounted), Model 45 (track-mounted) or Model LC 55 (track-mounted) rotary exploration drill rig, equipped with 3-1/4" I.D. hollow stem augers. Soil sampling was conducted using a 140-pound hammer dropping through 30 inches to drive a 2" O.D. split barrel sampler in general conformance with ASTM Standard Practice D1586. Rock coring was performed in general conformance with ASTM Standard Practice D2113. Undisturbed Shelby Tube sampling was conducted in general conformance with ASTM Standard Practice D1587.

All Borings were backfilled with auger cuttings to nearly match existing grades.

Soil samples were logged and visually classified in the field by the driller or an on-site Geotechnical Engineer, and a portion of each soil sample was placed and sealed in a glass jar. Bedrock cores were placed and secured in a wooden box. The soil and rock classifications were later reviewed by a CME Engineer in CME's East Syracuse AASHTO re:source<sup>2</sup> Accredited Laboratory. The visual soil classifications were made using a modified Burmister Classification System, as practiced by CME, and as generally described in the attached document entitled *General Information & Key to the Test Boring Logs*. The *Test Boring Logs* and *Bedrock Core Photographs* are also attached to this report.

Pocket Penetrometer Testing (which gives an idea of the unconfined compressive strength of the soil) was performed on selected split-spoon samples retrieved from the Test Borings. The test results are given on the applicable *Test Boring Logs*.

## 2.3 Cone Penetration Testing

A total of 70 Cone Penetration Tests were performed by a subcontractor to CME using a TC-7 track mounted rig. Seismic Cone Penetration Tests and Pore Pressure Dissipation Tests were performed at selected locations. Please refer to the attached *Cone-Tec – CPT Report* prepared by ConeTec for CPT Logs and test results.

## 2.4 Groundwater Monitoring Wells

A total of 6 Groundwater Monitoring Wells, labeled W-4, W-5, W-6, W-7, W-8, and W-9, were installed during the second phase of the exploration program. These wells were installed in or near Test Borings B-337, B-391, B-370, B-400, B-420 and B-422 respectively. Please refer to the attached *Groundwater Monitoring Well Logs*, labeled W-4 to W-9, for details of the well installation.

As part of the first phase exploration, 3 Groundwater Monitoring Wells, labeled W-1, W-2 and W-3, were installed in or near Test Borings B-129, B-24, and B-227, respectively.

Periodic monitoring of the groundwater level in the wells was performed by CME. Please refer to the attached *Groundwater Observation Summary Table* for groundwater levels observed, thus far.

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<sup>1</sup> Please note Boring Log for Test Boring B-346 was not included in the Geotechnical Data Report issued for that phase. This Boring Log is included in this report.

<sup>2</sup> **AASHTO re:source** – American Association of State Highway & Transportation Officials (AASHTO) Materials Reference Laboratory, a Federal Agency having jurisdiction to assess laboratory competency according to the Standards of the United States of America. CME East Syracuse accreditation includes testing of Portland Cement Concrete, Aggregate and Soil Materials. [www.AASHTOresource.org](http://www.AASHTOresource.org).

## 2.5 Test Pits

A total of 5 Test Pits were excavated using a Link Belt Model LNK 27 excavator, equipped with a 24-inch-wide general-purpose bucket. The Test Pits were excavated and backfilled by a subcontractor to CME. The backfill consisted of excavated materials placed in 2 to 3 feet thick lifts, with each lift compacted using the excavator bucket making several hits. CME Engineer Astitwa Sharma, E.I.T. was on-site to observe the Test Pit excavation, take photographs, and prepare Test Pit Logs. *Test Pit Logs*, labeled TP-1 through TP-5, and *Test Pit Photographs* are attached to this Report.

Soil samples were logged and visually classified in the field by Sharma. The visual soil classifications were made using the modified Burmister Classification System.

In-situ Vane Shear Tests were performed at various depths in the Test Pits utilizing a Humbolt H-60 field testing apparatus. Pocket Penetrometer Testing was also performed in the Test Pits. Please refer to the attached *Vane Shear Test and Pocket Penetrometer Test Summary Tables* for test results.

## 2.6 Laboratory Testing

Laboratory testing was performed on selected soil samples, consisting of Natural Moisture Content, Atterberg Limits, Particle Size Analysis, Rock Core Compression, DIPRA, One-Dimensional Consolidation, Moisture-Density Relationship (Proctor Compaction), and California Bearing Ratio (CBR), in CME's East Syracuse Laboratory. Please refer to the attached *CME Laboratory Test Summary Report* for test methods and results.

Chloride and sulfate content testing on selected samples was performed by CME's subcontractor, Geotechnics. Please refer to the attached *Geotechnics Laboratory Test Summary Report* for test results.

Sulfur content testing and neutralization potential testing were performed on selected shale bedrock samples. This testing was performed by CME's subcontractor, CMT Laboratories, Inc. Please refer to the attached *CMT Laboratory Test Summary Report* for test results.

## 3.0 STANDARD OF CARE

CME endeavored to conduct services identified herein in a manner consistent with that level of care and skill ordinarily exercised by members of the industry currently practicing in the same locality and under similar conditions as this project. No warranty, either expressed or implied, is made or intended by CME's proposal, contract, and written or oral reports, all of which warranties are hereby expressly disclaimed. CME shall not be responsible for the acts or omissions of the Client, its contractors, agents, and consultants. CME may rely upon information supplied by Client, its contractors, agents, and consultants or information available from generally accepted reputable sources, without independent verification, and CME assumes no responsibility for the accuracy thereof.

## 4.0 CLOSING

CME's services have been provided according to the requirements of the referenced CME Proposal/Agreement. No other representations, expressed or implied, are intended or made with respect to the information provided herein, including but not limited to, its suitability for use by others.



Respectfully Submitted,  
**CME Associates, Inc.**

Reviewed by:  
**CME Associates, Inc.**

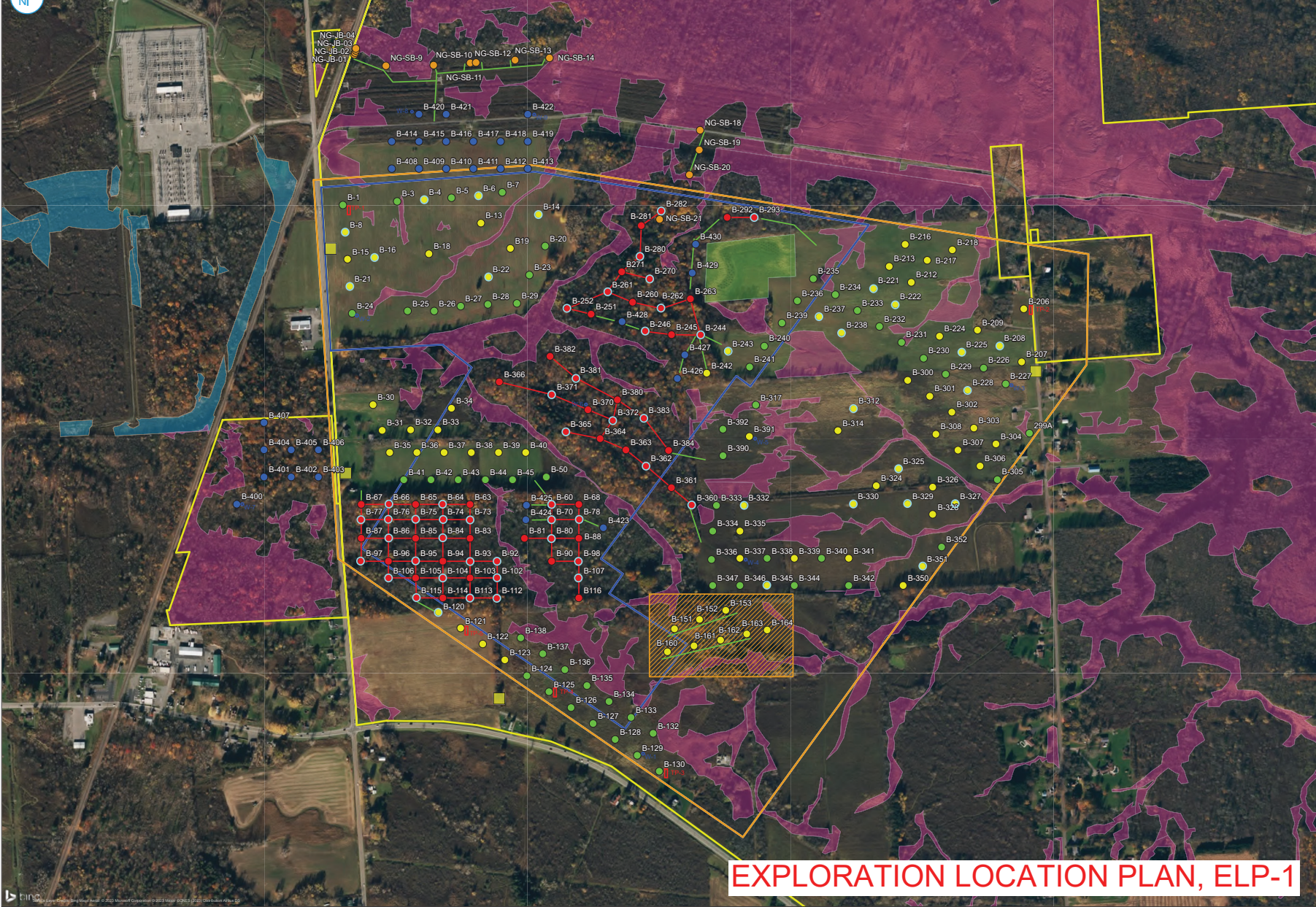
Anas N. Anasthas, P.E.  
Senior Geotechnical Engineer

Christopher R. Paolini, PE, MPS, EXW<sup>SM</sup>  
Senior Vice President

**Attachment Listing:**

- Exploration Location Plan (1 of 1)
- Coordinates and Elevations Tables (6 of 6)
- Test Pit Logs (5 of 5)
- Test Pit Photographs (5 of 5)
- Vane Shear Test and Pocket Penetrometer Test Summary Tables (1 of 1)
- Groundwater Observation Summary Table (1 of 1)
- Groundwater Monitoring Well Logs (6 of 6)
- Bedrock Core Photographs (17 of 17)
- CME Laboratory Test Summary Report (22 of 22)
- CMT Laboratory Test Summary Report (3 of 3)
- Geotechnics Laboratory Test Summary Report (5 of 5)
- Test Boring Logs (193 of 193)
- ConeTec CPT Report (263 of 263)
- General Information & Key to Test Boring Logs (4 of 4)

# ATTACHMENT TO CME REPORT NUMBER: 28062B-03-1223



- Boring Locations**
- Phase A (Completed Spring 2023)
  - Phase B (Scheduled to be Completed in September-October 2023)
  - Phase C (Scheduled to be Completed in October-December 2023)
  - National Grid (Not part of the above referenced report)
  - Additional Borings if Necessary
- Site Access Points**
- Site Access Points
- Phase 1 Boundary**
- Phase 1 Boundary
- Phase 2 Boundary**
- Phase 2 Boundary
- Site Boundary**
- Site Boundary
- Additional Paths for Brush Clearing**
- Additional Paths for Brush Clearing
- National Grid Wetland Mitigation Area**
- National Grid Wetland Mitigation Area
- Ramboll-Delineated Wetlands**
- Ramboll-Delineated Wetlands
- Fisher-Delineated Wetlands**
- Fisher-Delineated Wetlands
- Avoid All Activity Until October 15, 2023**
- Avoid All Activity Until October 15, 2023
- CPT Location**
- CPT Location
- Test Pit Location**
- Test Pit Location
- Ground Water Monitoring Wells**
- Ground Water Monitoring Wells

**Notes**  
 IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER, TO ALTER THIS DOCUMENT. THIS DRAWING WAS PREPARED BY THE SCALE INDICATED. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR TO DETERMINE THE ACTUAL SIZE. DRAWING IS NOT SCALABLE IF NO SCALE BAR IS PRESENT.



## BORING PLAN LOCATIONS

Micron White Pine  
 Co., NY

D-107

# EXPLORATION LOCATION PLAN, ELP-1

RAMBOLL AMERICAS  
 ENGINEERING SOLUTIONS, INC.  
 A RAMBOLL COMPANY



C:\Users\jkuam\OneDrive - Ramboll\Documents\Micron White Pine\Borings\Boring Plan Locations

PROJECT: 190110076 | DATED: 09/20/2023 | DESIGNER: KJL/USD

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Exploration ID	Latitude	Longitude	Northing (ft)	Easting (ft)	Elevation (ft)	Exploration Phase and Type
B 1	43.19603	-76.16652	1164795.7	931352.0	392.7	Test Boring - First Phase
B 3	43.19609	-76.16503	1164822.2	931751.1	393.0	Test Boring - First Phase
B 4	43.19613	-76.16428	1164835.3	931950.8	393.2	Cone Penetration Test
B 5	43.19616	-76.16353	1164848.5	932150.3	392.7	Test Boring - First Phase
B 6	43.19619	-76.16278	1164861.8	932349.9	391.2	Cone Penetration Test
B 7	43.19628	-76.16215	1164895.2	932518.1	391.2	Test Boring - First Phase
B 8	43.19548	-76.16646	1164596.4	931369.0	393.7	Cone Penetration Test
B 13	43.19565	-76.16272	1164662.6	932366.8	391.1	Test Boring - Second Phase
B 14	43.19581	-76.16113	1164725.7	932791.1	394.0	Cone Penetration Test
B 15	43.19493	-76.16640	1164397.0	931386.1	394.0	Test Boring - Second Phase
B 16	43.19497	-76.16566	1164410.4	931585.5	393.9	Cone Penetration Test
B 18	43.19497	-76.16427	1164412.9	931955.2	391.9	Test Boring - Second Phase
B 19	43.19513	-76.16191	1164476.5	932583.5	391.8	Test Boring - Second Phase
B 20	43.19518	-76.16095	1164493.7	932838.9	392.4	Test Boring - First Phase
B 21	43.19438	-76.16634	1164197.8	931403.1	393.7	Cone Penetration Test
B 22	43.19456	-76.16253	1164266.0	932420.1	391.8	Cone Penetration Test
B 23	43.19459	-76.16139	1164281.0	932723.3	387.3	Test Boring - First Phase
B 24	43.19384	-76.16628	1163998.5	931420.0	394.6	Test Boring - First Phase
B 25	43.19386	-76.16476	1164010.3	931827.8	393.0	Test Boring - First Phase
B 26	43.19386	-76.16401	1164010.4	932027.5	392.1	Test Boring - First Phase
B 27	43.19397	-76.16329	1164051.5	932218.3	390.0	Test Boring - First Phase
B 28	43.19403	-76.16255	1164075.3	932415.6	390.5	Test Boring - First Phase
B 29	43.19416	-76.16178	1164120.7	932620.7	389.7	Test Boring - First Phase
B 30	43.19199	-76.16572	1163326.8	931573.7	392.3	Test Boring - Second Phase
B 31	43.19147	-76.16547	1163138.4	931641.2	394.8	Test Boring - Second Phase
B 32	43.19148	-76.16469	1163142.2	931850.1	392.3	Test Boring - Second Phase
B 33	43.19148	-76.16394	1163142.1	932050.2	395.8	Test Boring - Second Phase
B 34	43.19191	-76.16356	1163300.7	932150.2	394.2	Test Boring - Second Phase
B 35	43.19103	-76.16527	1162975.3	931696.1	397.4	Test Boring - Second Phase
B 36	43.19102	-76.16452	1162975.4	931896.0	394.7	Test Boring - Second Phase
B 37	43.19102	-76.16377	1162975.3	932096.1	394.3	Test Boring - Second Phase
B 38	43.19102	-76.16302	1162975.4	932296.0	397.2	Test Boring - Second Phase
B 39	43.19102	-76.16227	1162975.3	932496.0	397.0	Test Boring - Second Phase
B 40	43.19101	-76.16152	1162975.3	932696.2	396.5	Test Boring - Second Phase
B 41	43.19048	-76.16488	1162775.4	931799.5	398.8	Test Boring - First Phase
B 42	43.19047	-76.16413	1162775.4	931999.6	398.8	Test Boring - First Phase
B 43	43.19047	-76.16338	1162775.3	932199.7	396.3	Test Boring - First Phase
B 44	43.19047	-76.16263	1162775.3	932399.7	397.9	Test Boring - First Phase
B 45	43.19047	-76.16188	1162775.4	932599.5	399.9	Test Boring - First Phase
B 50	43.19052	-76.16095	1162795.3	932847.7	396.6	Test Boring - First Phase
B 60	43.18996	-76.16081	1162593.5	932886.7	401.0	Cone Penetration Test
B 63	43.18997	-76.16306	1162593.5	932286.7	400.5	Test Boring - Second Phase
B 64	43.18997	-76.16381	1162593.7	932086.8	400.0	Cone Penetration Test
B 65	43.18998	-76.16456	1162593.8	931886.9	402.5	Test Boring - Second Phase
B 66	43.18998	-76.16531	1162593.8	931686.8	402.4	Cone Penetration Test
B 67	43.18998	-76.16606	1162593.6	931486.8	405.1	Test Boring - Second Phase

Exploration ID	Latitude	Longitude	Northing (ft)	Easting (ft)	Elevation (ft)	Exploration Phase and Type
B 68	43.18996	-76.16008	1162593.3	933082.3	398.5	Test Boring - Second Phase
B 70	43.18966	-76.16081	1162482.3	932886.9	403.6	Cone Penetration Test
B 73	43.18967	-76.16306	1162482.3	932286.9	402.0	Cone Penetration Test
B 74	43.18967	-76.16381	1162482.3	932086.9	402.6	Cone Penetration Test
B 75	43.18967	-76.16456	1162482.3	931886.6	404.4	Cone Penetration Test
B 76	43.18967	-76.16531	1162482.2	931686.7	403.2	Cone Penetration Test
B 77	43.18968	-76.16606	1162482.2	931486.6	404.5	Cone Penetration Test
B 78	43.18965	-76.16006	1162482.2	933086.8	402.1	Cone Penetration Test
B 80	Survey Data Not Provided by Thew					Cone Penetration Test
B 81	43.18928	-76.16157	1162344.6	932686.6	404.4	Test Boring - Second Phase
B 83	43.18929	-76.16306	1162344.6	932286.8	404.8	Test Boring - Second Phase
B 84	43.18929	-76.16381	1162344.6	932086.8	403.7	Cone Penetration Test
B 85	43.18929	-76.16456	1162344.7	931886.8	404.7	Test Boring - Second Phase
B 86	43.18930	-76.16531	1162344.8	931687.0	404.0	Cone Penetration Test
B 87	43.18930	-76.16606	1162344.8	931486.9	403.8	Test Boring - Second Phase
B 88	43.18928	-76.16007	1162344.6	933086.7	404.6	Test Boring - Second Phase
B 90	43.18882	-76.16082	1162176.0	932887.0	406.0	Test Boring - Second Phase
B 92	43.18882	-76.16232	1162175.8	932486.8	406.2	Cone Penetration Test
B 93	43.18882	-76.16307	1162175.8	932286.8	407.4	Cone Penetration Test
B 94	43.18883	-76.16382	1162176.0	932086.8	406.8	Test Boring - Second Phase
B 95	43.18883	-76.16457	1162175.9	931886.8	406.1	Cone Penetration Test
B 96	43.18883	-76.16532	1162176.0	931686.8	407.8	Test Boring - Second Phase
B 97	43.18884	-76.16607	1162175.8	931486.7	406.0	Cone Penetration Test
B 98	43.18881	-76.16007	1162175.9	933086.6	405.6	Cone Penetration Test
B 102	43.18849	-76.16232	1162053.1	932486.9	408.6	Cone Penetration Test
B 103	43.18849	-76.16307	1162053.0	932286.7	408.5	Test Boring - Second Phase
B 104	43.18849	-76.16382	1162053.2	932086.9	407.0	Cone Penetration Test
B 105	43.18849	-76.16457	1162053.0	931886.6	406.4	Test Boring - Second Phase
B 106	43.18850	-76.16532	1162053.0	931686.7	407.1	Cone Penetration Test
B 107	43.18848	-76.16007	1162053.2	933086.9	406.1	Cone Penetration Test
B 112	43.18808	-76.16232	1161905.5	932486.9	410.3	Cone Penetration Test
B 113	43.18808	-76.16307	1161905.7	932286.6	410.1	Cone Penetration Test
B 114	43.18809	-76.16382	1161905.7	932087.0	409.8	Test Boring - Second Phase
B 115	43.18809	-76.16455	1161906.5	931893.8	407.0	Cone Penetration Test
B 116	43.18798	-76.16011	1161871.3	933077.3	406.3	Test Boring - Second Phase
B 120	Survey Data Not Provided by Thew					Cone Penetration Test
B 121	43.18748	-76.16334	1161684.2	932218.0	414.8	Test Boring - Second Phase
B 122	43.18715	-76.16273	1161567.2	932380.2	418.8	Test Boring - Second Phase
B 123	43.18683	-76.16212	1161450.3	932542.7	418.3	Test Boring - Second Phase
B 124	43.18651	-76.16152	1161333.5	932705.1	420.8	Test Boring - First Phase
B 125	43.18618	-76.16091	1161216.4	932867.1	422.1	Test Boring - First Phase
B 126	43.18586	-76.16030	1161099.4	933029.3	421.6	Test Boring - First Phase
B 127	43.18554	-76.15970	1160982.4	933191.5	420.6	Test Boring - First Phase
B 128	43.18521	-76.15909	1160865.4	933353.9	419.5	Test Boring - First Phase
B 129	43.18489	-76.15849	1160748.4	933516.1	418.8	Test Boring - First Phase
B 130	43.18457	-76.15788	1160631.4	933678.1	418.8	Test Boring - First Phase



Exploration ID	Latitude	Longitude	Northing (ft)	Easting (ft)	Elevation (ft)	Exploration Phase and Type
B 132	43.18533	-76.15805	1160910.4	933632.8	410.3	Test Boring - First Phase
B 133	43.18566	-76.15865	1161027.2	933470.7	410.3	Test Boring - First Phase
B 134	43.18598	-76.15926	1161144.5	933308.4	411.5	Test Boring - First Phase
B 135	43.18630	-76.15986	1161261.4	933146.2	412.5	Test Boring - First Phase
B 136	43.18663	-76.16047	1161378.4	932984.0	413.0	Test Boring - First Phase
B 137	43.18695	-76.16107	1161495.3	932821.9	413.5	Test Boring - First Phase
B 138	43.18727	-76.16168	1161612.3	932659.7	412.4	Test Boring - First Phase
B 151	43.18744	-76.15744	1161678.5	933790.0	403.5	Test Boring - Second Phase
B 152	43.18763	-76.15675	1161747.9	933973.7	402.9	Test Boring - Second Phase
B 153	43.18781	-76.15603	1161815.1	934166.9	404.4	Test Boring - Second Phase
B 160	43.18698	-76.15764	1161509.9	933738.3	405.1	Test Boring - Second Phase
B 161	43.18710	-76.15691	1161553.6	933933.3	404.6	Test Boring - Second Phase
B 162	43.18721	-76.15617	1161596.0	934128.8	401.3	Test Boring - Second Phase
B 163	43.18733	-76.15545	1161641.3	934321.3	400.5	Test Boring - Second Phase
B 164	43.18739	-76.15491	1161664.6	934464.8	402.6	Test Boring - Second Phase
B 206	43.19386	-76.14777	1164031.9	936358.1	390.7	Test Boring - Second Phase
B 207	43.19279	-76.14783	1163641.8	936342.3	389.9	Test Boring - Second Phase
B 208	43.19311	-76.14844	1163758.9	936180.1	390.8	Cone Penetration Test
B 209	43.19344	-76.14905	1163875.8	936017.8	391.0	Test Boring - Second Phase
B 212	43.19441	-76.15086	1164226.7	935531.1	386.8	Test Boring - Second Phase
B 213	43.19473	-76.15147	1164343.8	935369.0	387.3	Test Boring - Second Phase
B 216	43.19517	-76.15103	1164506.0	935485.7	385.8	Test Boring - Second Phase
B 217	43.19485	-76.15042	1164388.9	935648.1	387.8	Test Boring - Second Phase
B 218	43.19506	-76.14973	1164465.4	935832.9	386.4	Test Boring - Second Phase
B 221	43.19429	-76.15191	1164181.4	935251.9	389.8	Cone Penetration Test
B 222	43.19396	-76.15131	1164064.5	935414.1	389.7	Cone Penetration Test
B 224	43.19332	-76.15009	1163830.7	935738.7	389.5	Test Boring - Second Phase
B 225	43.19299	-76.14949	1163713.5	935900.8	391.5	Cone Penetration Test
B 226	43.19267	-76.14888	1163596.6	936062.9	390.1	Test Boring - First Phase
B 227	43.19235	-76.14828	1163479.6	936225.2	389.3	Test Boring - First Phase
B 228	43.19223	-76.14932	1163434.4	935945.9	392.4	Cone Penetration Test
B 229	43.19255	-76.14993	1163551.3	935783.8	391.9	Test Boring - First Phase
B 230	43.19287	-76.15054	1163668.3	935621.5	391.0	Test Boring - First Phase
B 231	43.19320	-76.15114	1163785.3	935459.3	388.2	Test Boring - First Phase
B 232	43.19352	-76.15175	1163902.2	935297.1	387.8	Test Boring - First Phase
B 233	43.19384	-76.15235	1164019.2	935134.9	389.9	Test Boring - First Phase
B 234	43.19417	-76.15296	1164136.2	934972.7	389.9	Test Boring - First Phase
B 235	43.19449	-76.15357	1164253.2	934810.5	390.4	Test Boring - First Phase
B 236	43.19405	-76.15401	1164090.9	934693.5	394.0	Test Boring - First Phase
B 237	43.19372	-76.15340	1163974.0	934855.6	393.0	Cone Penetration Test
B 238	43.19340	-76.15280	1163857.0	935017.8	392.2	Cone Penetration Test
B 239	43.19361	-76.15436	1163929.8	934600.3	393.0	Test Boring - First Phase
B 240	43.19308	-76.15490	1163738.9	934457.1	392.8	Test Boring - First Phase
B 241	43.19272	-76.15533	1163604.4	934342.7	393.5	Test Boring - First Phase
B 242	43.19259	-76.15652	1163556.3	934024.9	392.7	Test Boring - Second Phase
B 243	43.19304	-76.15594	1163721.2	934180.3	393.3	Cone Penetration Test

Exploration ID	Latitude	Longitude	Northing (ft)	Easting (ft)	Elevation (ft)	Exploration Phase and Type
B 244	43.19336	-76.15668	1163837.9	933981.6	392.9	Cone Penetration Test
B 245	43.19338	-76.15746	1163842.4	933773.8	392.4	Test Boring - Second Phase
B 246	43.19350	-76.15815	1163887.8	933589.4	392.0	Cone Penetration Test
B 251	43.19386	-76.15965	1164014.3	933189.3	392.5	Test Boring - Second Phase
B 252	43.19393	-76.16024	1164041.8	933030.9	388.5	Cone Penetration Test
B 260	43.19403	-76.15855	1164080.5	933482.1	392.6	Test Boring - Second Phase
B 261	43.19424	-76.15922	1164152.8	933303.9	392.0	Cone Penetration Test
B 262	43.19390	-76.15776	1164032.9	933694.2	394.9	Cone Penetration Test
B 263	43.19410	-76.15696	1164104.9	933905.2	392.2	Test Boring - Second Phase
B 270	43.19450	-76.15807	1164252.7	933610.1	392.4	Cone Penetration Test
B 271	43.19461	-76.15879	1164288.2	933416.2	393.1	Test Boring - Second Phase
B 280	43.19494	-76.15831	1164411.6	933545.0	385.2	Cone Penetration Test
B 281	43.19560	-76.15827	1164652.6	933554.5	383.7	Test Boring - Second Phase
B 282	43.19588	-76.15775	1164756.1	933691.5	386.2	Cone Penetration Test
B 292	43.19575	-76.15593	1164710.7	934178.5	385.5	Test Boring - Second Phase
B 293	43.19573	-76.15518	1164704.5	934377.6	384.4	Cone Penetration Test
B 299	43.19145	-76.14753	1163153.8	936425.5	387.7	Test Boring - First Phase
B 300	43.19243	-76.15098	1163506.1	935504.5	393.6	Test Boring - Second Phase
B 301	43.19211	-76.15037	1163389.1	935666.9	392.6	Test Boring - Second Phase
B 302	43.19178	-76.14976	1163272.1	935829.1	392.3	Test Boring - Second Phase
B 303	43.19146	-76.14916	1163155.1	935991.3	390.8	Test Boring - Second Phase
B 304	43.19114	-76.14855	1163038.1	936153.5	390.5	Test Boring - Second Phase
B 305	43.19042	-76.14852	1162775.9	936163.8	388.1	Test Boring - First Phase
B 306	43.19069	-76.14899	1162875.9	936036.6	388.3	Test Boring - Second Phase
B 307	43.19102	-76.14960	1162992.9	935874.3	388.7	Test Boring - Second Phase
B 308	43.19134	-76.15021	1163110.0	935712.2	389.5	Test Boring - Second Phase
B 312	43.19187	-76.15247	1163298.6	935108.4	390.9	Cone Penetration Test
B 314	43.19142	-76.15291	1163136.5	934991.6	392.0	Test Boring - Second Phase
B 317	43.19195	-76.15517	1163325.2	934387.9	392.9	Test Boring - First Phase
B 324	43.19031	-76.15186	1162730.9	935273.6	390.7	Test Boring - Second Phase
B 325	43.19065	-76.15124	1162857.2	935436.6	390.8	Cone Penetration Test
B 326	43.19027	-76.15030	1162720.7	935688.2	388.4	Test Boring - Second Phase
B 327	43.18993	-76.14968	1162597.3	935855.2	389.0	Cone Penetration Test
B 328	43.18976	-76.15030	1162533.7	935689.0	389.6	Test Boring - Second Phase
B 329	43.18994	-76.15100	1162597.4	935503.6	389.8	Cone Penetration Test
B 330	43.19000	-76.15249	1162618.6	935104.6	390.8	Cone Penetration Test
B 332	43.18992	-76.15552	1162585.9	934298.8	393.7	Cone Penetration Test
B 333	43.18993	-76.15627	1162586.0	934098.8	394.9	Test Boring - First Phase
B 334	43.18941	-76.15637	1162397.5	934071.1	397.8	Test Boring - First Phase
B 335	43.18941	-76.15562	1162397.4	934271.0	394.8	Test Boring - Second Phase
B 336	43.18884	-76.15641	1162188.6	934062.2	403.9	Test Boring - First Phase
B 337	43.18886	-76.15563	1162197.4	934270.9	403.5	Test Boring - Second Phase
B 338	43.18885	-76.15488	1162197.4	934470.9	394.4	Test Boring - First Phase
B 339	43.18885	-76.15413	1162197.4	934670.9	391.9	Test Boring - Second Phase
B 340	43.18878	-76.15333	1162172.1	934882.8	391.4	Test Boring - First Phase
B 341	43.18886	-76.15267	1162201.4	935059.4	391.0	Test Boring - Second Phase

Exploration ID	Latitude	Longitude	Northing (ft)	Easting (ft)	Elevation (ft)	Exploration Phase and Type
B 342	43.18830	-76.15263	1161997.4	935071.0	391.5	Test Boring - First Phase
B 343	43.18830	-76.15338	1161997.4	934870.9	393.1	Cone Penetration Test
B 344	43.18830	-76.15413	1161997.4	934671.0	395.8	Test Boring - First Phase
B 345	43.18830	-76.15488	1161997.3	934471.0	406.6	Cone Penetration Test
B 346	43.18831	-76.15563	1161997.5	934271.1	403.9	Test Boring - First Phase
B 347	43.18831	-76.15638	1161997.5	934071.1	401.7	Test Boring - First Phase
B 350	43.18829	-76.15113	1161997.4	935470.9	391.4	Test Boring - Second Phase
B 351	43.18868	-76.15060	1162138.8	935612.5	390.1	Cone Penetration Test
B 352	43.18901	-76.15006	1162261.3	935756.5	388.7	Test Boring - First Phase
B 360	43.18994	-76.15694	1162589.9	933920.1	396.9	Cone Penetration Test
B 361	43.19028	-76.15750	1162714.3	933768.5	395.1	Test Boring - Second Phase
B 362	43.19072	-76.15820	1162872.2	933582.0	395.2	Cone Penetration Test
B 363	43.19106	-76.15874	1162995.9	933435.6	395.8	Test Boring - Second Phase
B 364	43.19129	-76.15948	1163078.8	933238.5	395.8	Test Boring - Second Phase
B 365	43.19138	-76.16042	1163111.1	932988.0	404.8	Cone Penetration Test
B 366	43.19244	-76.16223	1163495.2	932502.4	393.0	Test Boring - Second Phase
B 370	43.19187	-76.15980	1163290.1	933153.2	393.7	Test Boring - Second Phase
B 371	43.19217	-76.16079	1163398.9	932887.2	394.7	Cone Penetration Test
B 372	43.19165	-76.15911	1163212.1	933337.5	393.3	Cone Penetration Test
B 380	43.19199	-76.15900	1163333.5	933364.7	391.0	Test Boring - Second Phase
B 381	43.19252	-76.16013	1163527.8	933064.6	393.7	Cone Penetration Test
B 382	43.19294	-76.16073	1163678.8	932903.2	386.7	Test Boring - Second Phase
B 383	43.19170	-76.15824	1163229.5	933569.7	391.7	Cone Penetration Test
B 384	43.19104	-76.15758	1162991.0	933746.6	392.6	Test Boring - Second Phase
B 390	43.19093	-76.15608	1162951.9	934146.7	392.8	Test Boring - First Phase
B 391	43.19131	-76.15535	1163093.3	934340.4	393.0	Test Boring - Second Phase
B 392	43.19146	-76.15608	1163146.8	934146.1	393.5	Test Boring - First Phase
B 400	43.19004	-76.16946	1162609.1	930580.2	399.6	Test Boring - Second Phase
B 401	43.19040	-76.16883	1162743.2	930748.4	400.7	Test Boring - Second Phase
B 402	43.19054	-76.16799	1162795.1	930971.7	398.3	Test Boring - Second Phase
B 403	43.19052	-76.16724	1162788.3	931170.5	400.1	Test Boring - Second Phase
B 404	43.19105	-76.16873	1162979.7	930772.6	399.0	Test Boring - Second Phase
B 405	43.19111	-76.16795	1163003.0	930979.9	398.3	Test Boring - Second Phase
B 406	43.19109	-76.16723	1162995.3	931171.9	397.7	Test Boring - Second Phase
B 407	43.19151	-76.16870	1163148.1	930779.9	397.0	Test Boring - Second Phase
B 408	43.19675	-76.16517	1165063.0	931711.3	392.3	Test Boring - Second Phase
B 409	43.19675	-76.16442	1165062.9	931911.3	393.5	Test Boring - Second Phase
B 410	43.19675	-76.16367	1165062.9	932111.3	393.3	Test Boring - Second Phase
B 411	43.19675	-76.16292	1165062.9	932311.3	393.2	Test Boring - Second Phase
B 412	43.19674	-76.16217	1165062.9	932511.3	392.2	Test Boring - Second Phase
B 413	43.19674	-76.16142	1165063.0	932711.2	386.5	Test Boring - Second Phase
B 414	43.19720	-76.16517	1165225.2	931711.3	392.0	Test Boring - Second Phase
B 415	43.19719	-76.16442	1165224.3	931911.2	391.8	Test Boring - Second Phase
B 416	43.19730	-76.16367	1165262.9	932111.3	392.3	Test Boring - Second Phase
B 417	43.19729	-76.16292	1165262.9	932311.3	388.8	Test Boring - Second Phase
B 418	43.19729	-76.16217	1165263.0	932511.2	385.4	Test Boring - Second Phase

<b>Exploration ID</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Northing (ft)</b>	<b>Easting (ft)</b>	<b>Elevation (ft)</b>	<b>Exploration Phase and Type</b>
B 419	43.19729	-76.16142	1165263.0	932711.2	386.1	Test Boring - Second Phase
B 420	43.19785	-76.16441	1165462.9	931911.3	390.9	Test Boring - Second Phase
B 421	43.19785	-76.16366	1165462.8	932111.2	386.0	Test Boring - Second Phase
B 422	43.19784	-76.16142	1165463.0	932711.0	382.0	Test Boring - Second Phase
B 423	43.18951	-76.15945	1162430.6	933250.3	401.0	Test Boring - Second Phase
B 424	43.18966	-76.16152	1162480.8	932697.4	403.0	Test Boring - Second Phase
B 425	43.18995	-76.16151	1162587.9	932701.6	401.1	Test Boring - Second Phase
B 426	43.19221	-76.15776	1163415.5	933696.8	390.5	Test Boring - Second Phase
B 427	43.19275	-76.15712	1163615.4	933865.3	390.9	Test Boring - Second Phase
B 428	43.19371	-76.15888	1163961.8	933395.1	392.7	Test Boring - Second Phase
B 429	43.19460	-76.15706	1164289.2	933878.4	390.8	Test Boring - Second Phase
B 430	43.19503	-76.15707	1164447.2	933873.8	390.2	Test Boring - Second Phase



6035 Corporate Drive  
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**SUBSURFACE  
 EXPLORATION  
 TEST PIT LOG**

<b>Test Pit ID</b>	<b>TP- 1</b>
<b>Page No.</b>	1 of 1
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	11/08/23
<b>Date Finished</b>	11/08/23
<b>Surface Elev.</b>	392.7'

<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHOD OF INVESTIGATION		GROUNDWATER OBSERVATIONS			
<b>Operator:</b>	Daryl Sherman	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Comment</b>
<b>Inspector:</b>	Astitwa Sharma, EIT	11/8/2023	8:55	None Noted	See Remark 3
<b>Equipment:</b>	Link Belt Model LNK 27				
<b>Type:</b>	Toothed Bucket				
<b>Bucket Width:</b>	24"				

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%
		From	To			
0					Topsoil and Organic Materials (moist, easy digging)	
1				2.0	-----	
2	S-1	2.0	4.0		Brown mottled SILT, little CLAY, trace mf GRAVEL, trace cmf SAND (moist, easy digging)	
3				4.0	-----	
4					Brown SILT, some CLAY, trace cmf SAND (moist, easy digging)	
5						
6				7.0	-----	
7					Grey/Brown SILT, some CLAY, trace cmf SAND (moist, easy digging)	
8					Bottom of Test Pit @ 8'	
9						
10						
11						
12						
13						
14						
15						
16						

**Remarks:**

- See Test Pit Photographs attached.
- Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.
- The Clayey Silt soils exhibit low permeability, and groundwater movement through this stratum is slow. Groundwater did not collect and accumulate in the test pit during the short time the test pit was left open. Wet and/or grey soils were noted, which may be indicative of soils present below groundwater.



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**SUBSURFACE  
 EXPLORATION  
 TEST PIT LOG**

<b>Test Pit ID</b>	<b>TP- 2</b>
<b>Page No.</b>	1 of 1
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	11/08/23
<b>Date Finished</b>	11/08/23
<b>Surface Elev.</b>	390.7'

<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHOD OF INVESTIGATION		GROUNDWATER OBSERVATIONS			
<b>Operator:</b>	Daryl Sherman	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Comment</b>
<b>Inspector:</b>	Astitwa Sharma, EIT	11/8/2023	10:20	None Noted	Water Seeping at 2'. See Remark 3
<b>Equipment:</b>	Link Belt Model LNK 27				
<b>Type:</b>	Toothed Bucket				
<b>Bucket Width:</b>	24"				

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%
		From	To			
0					Topsoil and Organic Materials (moist, easy digging)	
1				1.5	Brown mottled SILT, little CLAY, trace mf GRAVEL, trace mf SAND (wet, easy digging)	
2	S-1	2.0	4.0			
3						
4				4.0	Brown SILT, some CLAY, trace cmf SAND (moist, easy digging)	
5						
6						
7				7.0	Grey/Brown mottled SILT, little CLAY, fine cmf SAND (moist, easy digging)	
8						
9				9.0	Brown/Reddish SILT and CLAY, trace fine SAND (wet, easy digging)	
10						
11					Bottom of Test Pit @10.5'	
12						
13						
14						
15						
16						

**Remarks:**

- See Test Pit Photographs attached.
- Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.
- The Clayey Silt soils exhibit low permeability, and groundwater movement through this stratum is slow. Groundwater did not collect and accumulate in the test pit during the short time the test pit was left open. Wet and/or grey soils were noted, which may be indicative of soils present below groundwater.



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**SUBSURFACE  
 EXPLORATION  
 TEST PIT LOG**

<b>Test Pit ID</b>	<b>TP- 3</b>
<b>Page No.</b>	1 of 1
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	11/08/23
<b>Date Finished</b>	11/08/23
<b>Surface Elev.</b>	418.8'

<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHOD OF INVESTIGATION		GROUNDWATER OBSERVATIONS			
<b>Operator:</b>	Daryl Sherman	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Comment</b>
<b>Inspector:</b>	Astitwa Sharma, EIT	11/8/2023	11:30	6.5'	Water Seeping at 2'
<b>Equipment:</b>	Link Belt Model LNK 27				
<b>Type:</b>	Toothed Bucket				
<b>Bucket Width:</b>	24"				

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%
		From	To			
0					Topsoil and Organic Materials, some COBBLES (moist, moderate digging)	
1	S-1	2.0	4.0	1.5	Black/Dark Grey cmf SAND and cmf GRAVEL, some COBBLES, some BOULDERS (wet, hard digging)	
2				Brown Grey SILT, some cmf SAND, some cmf GRAVEL, little COBBLES (wet, hard digging)		
3						
4				4.0	Grey/Brown cmf SAND and cmf GRAVEL, some BOULDERS, some COBBLES, little SILT (wet, hard digging)	
5						
6						
7				7.0	Grey cmf SAND and SILT, some cmf GRAVEL, some COBBLES (moist, hard digging) <i>Possible Till</i>	
8					Bottom of Test Pit @ 7.5'	
9						
10						
11						
12						
13						
14						
15						
16						

**Remarks:**

- See Test Pit Photographs attached.
- Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.



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**SUBSURFACE  
 EXPLORATION  
 TEST PIT LOG**

<b>Test Pit ID</b>	<b>TP- 4</b>
<b>Page No.</b>	1 of 1
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	11/08/23
<b>Date Finished</b>	11/08/23
<b>Surface Elev.</b>	422.1'

<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHOD OF INVESTIGATION		GROUNDWATER OBSERVATIONS			
<b>Operator:</b>	Daryl Sherman	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Comment</b>
<b>Inspector:</b>	Astitwa Sharma, EIT	11/8/2023	12:30	None Noted	See Remark 3
<b>Equipment:</b>	Link Belt Model LNK 27				
<b>Type:</b>	Toothed Bucket				
<b>Bucket Width:</b>	24"				

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%
		From	To			
0				1.0	Topsoil and Organic Materials (moist, easy digging)	
1					Brown SILT and cmf SAND, little cmf GRAVEL, trace COBBLES (moist, medium digging)	
2	S-1	2.0	4.0	3.0	Brown cmf SAND and cmf GRAVEL, some SILT, little COBBLES (moist, medium to hard digging)	
3						
4						
5						
6				7.0	Grey SILT and cmf SAND, some cmf GRAVEL, little COBBLES (moist, hard digging)	
7					<i>Possible Till</i>	
8					Bottom of Test Pit 8.5'	
9						
10						
11						
12						
13						
14						
15						
16						

**Remarks:**

- See Test Pit Photographs attached.
- Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.
- Groundwater did not collect and accumulate in the test pit during the short time the test pit was left open.





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**SUBSURFACE  
 EXPLORATION  
 TEST PIT LOG**

<b>Test Pit ID</b>	<b>TP- 5</b>
<b>Page No.</b>	1 of 1
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	11/08/23
<b>Date Finished</b>	11/08/23
<b>Surface Elev.</b>	414.8'

<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHOD OF INVESTIGATION		GROUNDWATER OBSERVATIONS			
<b>Operator:</b>	Daryl Sherman	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Comment</b>
<b>Inspector:</b>	Astitwa Sharma, EIT	11/8/2023	13:28	None Noted	See Remark 3
<b>Equipment:</b>	Link Belt Model LNK 27				
<b>Type:</b>	Toothed Bucket				
<b>Bucket Width:</b>	24"				

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%
		From	To			
0				1.0	Topsoil and Organic Materials (moist, easy digging)	
1				2.5	Brown cmf SAND and SILT, some cmf GRAVEL, little COBBLES (moist, medium digging)	
2	S-1	2.5	4.0	4.0	Brown SILT, some cmf SAND, little cmf GRAVEL, little COBBLES (moist, medium to hard digging)	
3						
4				Brown cmf SAND and cmf GRAVEL, some COBBLES, some SILT (moist, medium to hard digging)		
5						
6				7.0	Grey SILT and cmf SAND, some cmf GRAVEL, little COBBLES (moist, hard digging)	
7					<i>Possible Till</i>	
8						
9					Bottom of Test Pit @ 9.0'	
10						
11						
12						
13						
14						
15						
16						

**Remarks:**

- See Test Pit Photographs, attached.
- Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.
- Groundwater did not collect and accumulate in the test pit during the short time the test pit was left open.



*Figure 1: Test Pit TP-1*



*Figure 2: Materials excavated from TP-1*



*Figure 3: Test Pit TP-2*



*Figure 4: Materials excavated from TP-2*



*Figure 5: Test Pit TP-3*



*Figure 6: Materials excavated from TP-3*



*Figure 7: Test Pit TP-4*



*Figure 8: Materials excavated from TP-4*



*Figure 9: Test Pit TP-5*



*Figure 10: Materials Excavated from TP-5*

**In-situ Vane Shear Test Readings**

TESP PIT ID	Depth (ft)	TEST 1		TEST 2		TEST 3	
		Peak (psf)	Residual (psf)	Peak (psf)	Residual (psf)	Peak (psf)	Residual (psf)
TP -1	2	3,675	1,420	2,589	1,336	3,341	1,754
	3	793	251	1,420	585	1,002	418
	4	167	84	501	84	418	251
TP -2	2	2,547	1,253	2,255	626	2,714	1,587
	3	1,462	585	1,670	585	1,295	418
	4	459	167	418	125	376	146
TP -4	2	1,023	459	1,044	418	835	397
TP -5	2.5	2,046	793	1,754	919	1,712	835

**In-situ Pocket Penetrometer Readings**

TEST PIT ID	Depth (ft)	TEST 1 (tsf)	TEST 2 (tsf)	TEST 3 (tsf)
TP-1	2	1.9	2.2	3.0
	3	1.3	1.3	1.5
	4	0.8	0.5	0.8
TP-2	2	3.8	3.5	2.8
	3	1.3	1.3	1.3
	4	0.8	0.5	0.5
TP-4	2	0.8	0.5	0.8
TP-5	2.5	0.5	0.8	0.5

Groundwater Observation Summary Table

Observed Groundwater Elevation (Feet)									
Date	W-1	W-2	W-3	W-4	W-5	W-6	W-7	W-8	W-9
	B-129	B-24	B-227	B-337	B-391	B-370	B-400	B-420	B-422
04/19/23	418.7		385.5						
04/21/23		393.8							
05/16/23	416.1	392.5	385.7						
05/17/23	416.0	391.8	386.4						
06/12/23	414.6	386.8	385.3						
10/05/23	415.2	389.2	386.4						
11/09/23	418.2	394.2	386.2	398.4	392.3	388.7	398.5	388.7	379.4
11/17/23	419.6	394.4	387.1	398.9	392.1	389.8	398.5	386.7	377.0





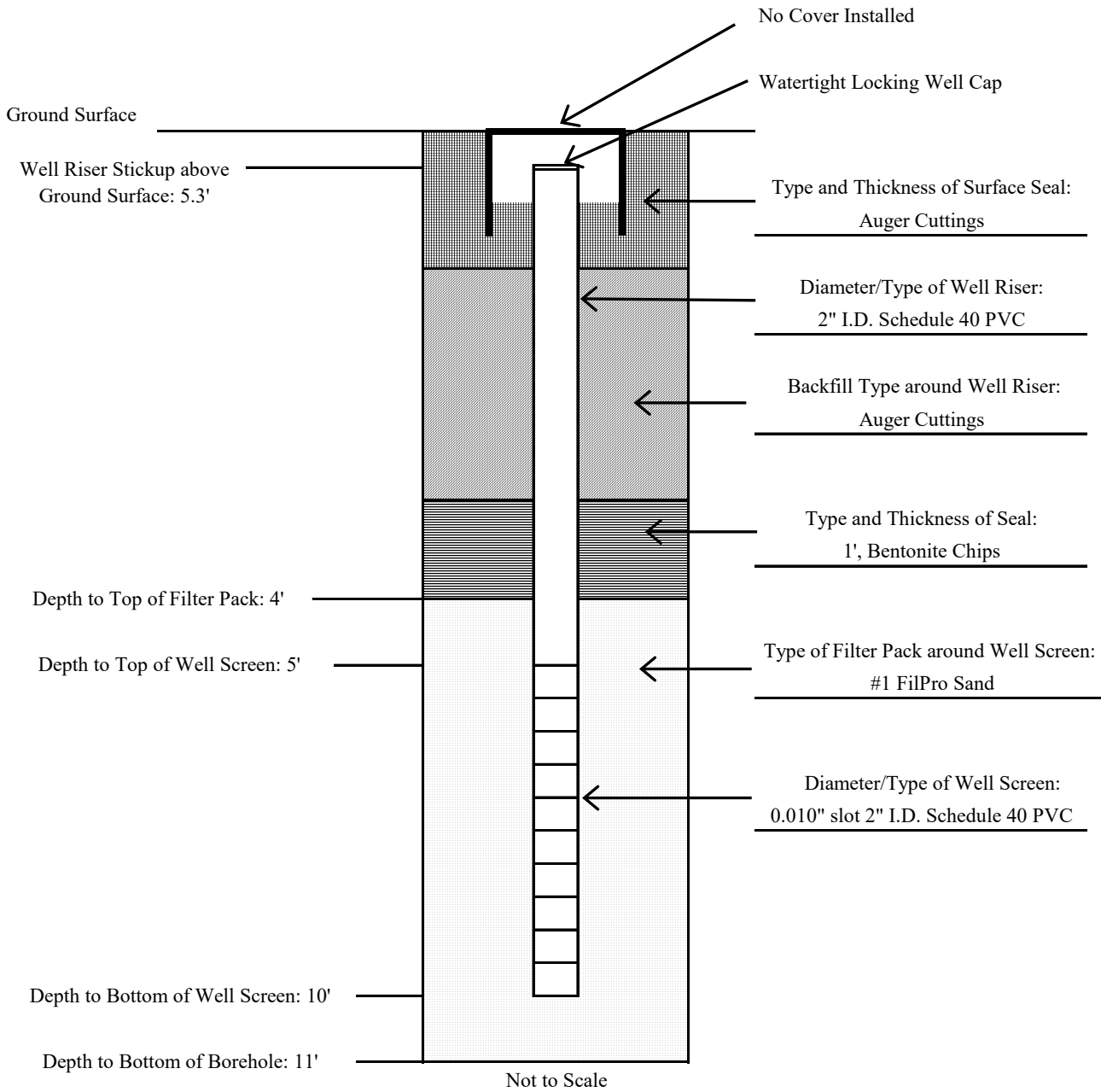
6035 Corporate Drive  
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### MONITORING WELL LOG

**Well No.** W-4

**Boring No.** B-337

<b>Project Name:</b>	Micron Campus, Clay, New York	<b>Report No.</b>	28062B-03-1223
<b>Client:</b>	Ramboll	<b>Installation Date</b>	10/30/2023
<b>Location:</b>	See Exploration Location Plan	<b>Surface Elevation</b>	403.5'
		<b>Riser Elevation</b>	408.8'
<b>Driller:</b>	Beau Fletcher	<b>Driller:</b>	Ryan Casatelli
		<b>Inspector:</b>	



**Remarks:**

1. See Test Boring Log B-337 for soil information.



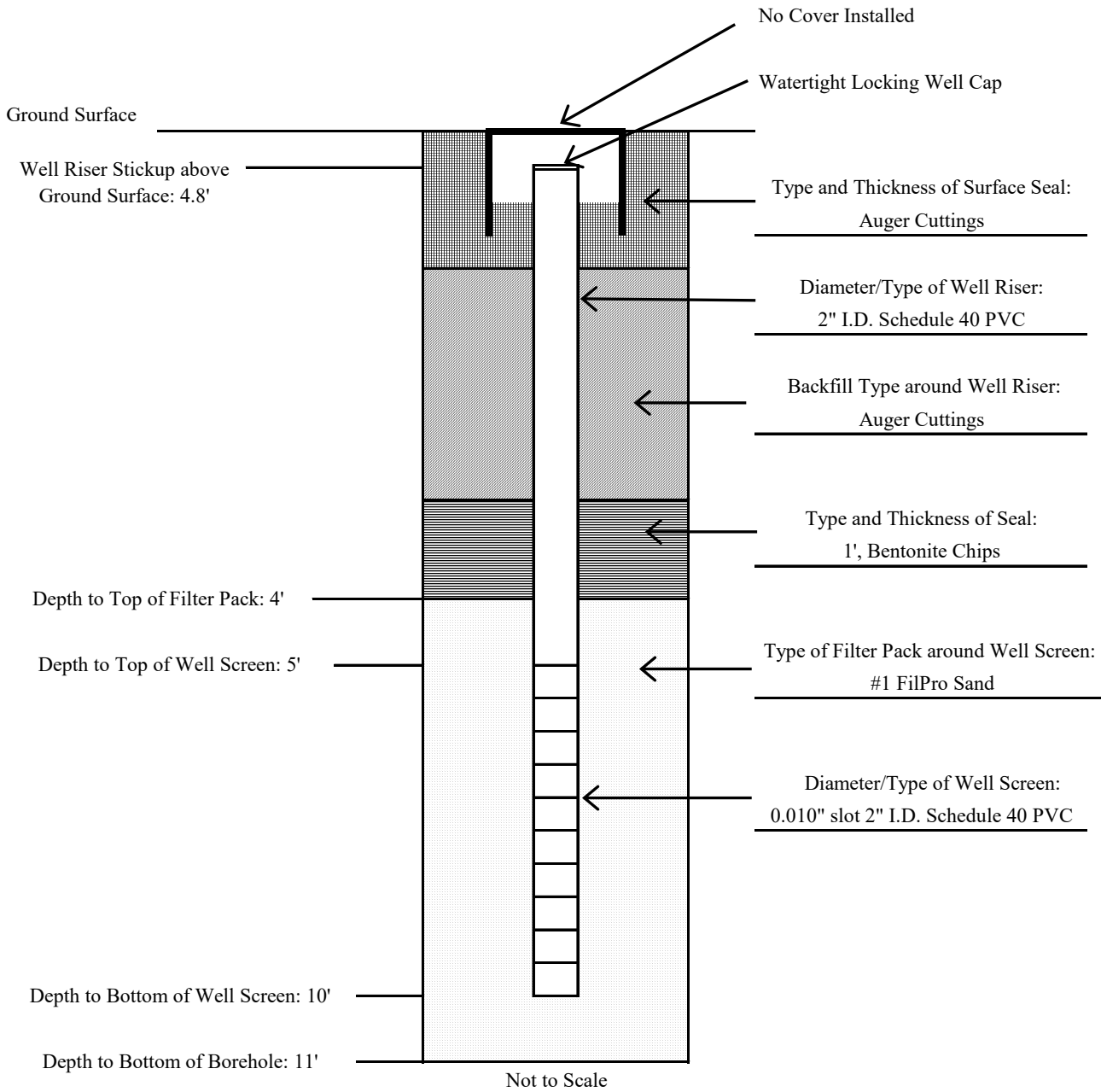
6035 Corporate Drive  
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 Phone: 315-701-0522

### MONITORING WELL LOG

**Well No.** W-5

**Boring No.** B-391

<b>Project Name:</b>	Micron Campus, Clay, New York	<b>Report No.</b>	28062B-03-1223
<b>Client:</b>	Ramboll	<b>Installation Date</b>	11/1/2023
<b>Location:</b>	See Exploration Location Plan	<b>Surface Elevation</b>	393.0'
		<b>Riser Elevation</b>	397.8'
<b>Driller:</b>	Beau Fletcher	<b>Driller:</b>	Ryan Casatelli
		<b>Inspector:</b>	



**Remarks:**

1. See Test Boring Log B-391 for soil information.

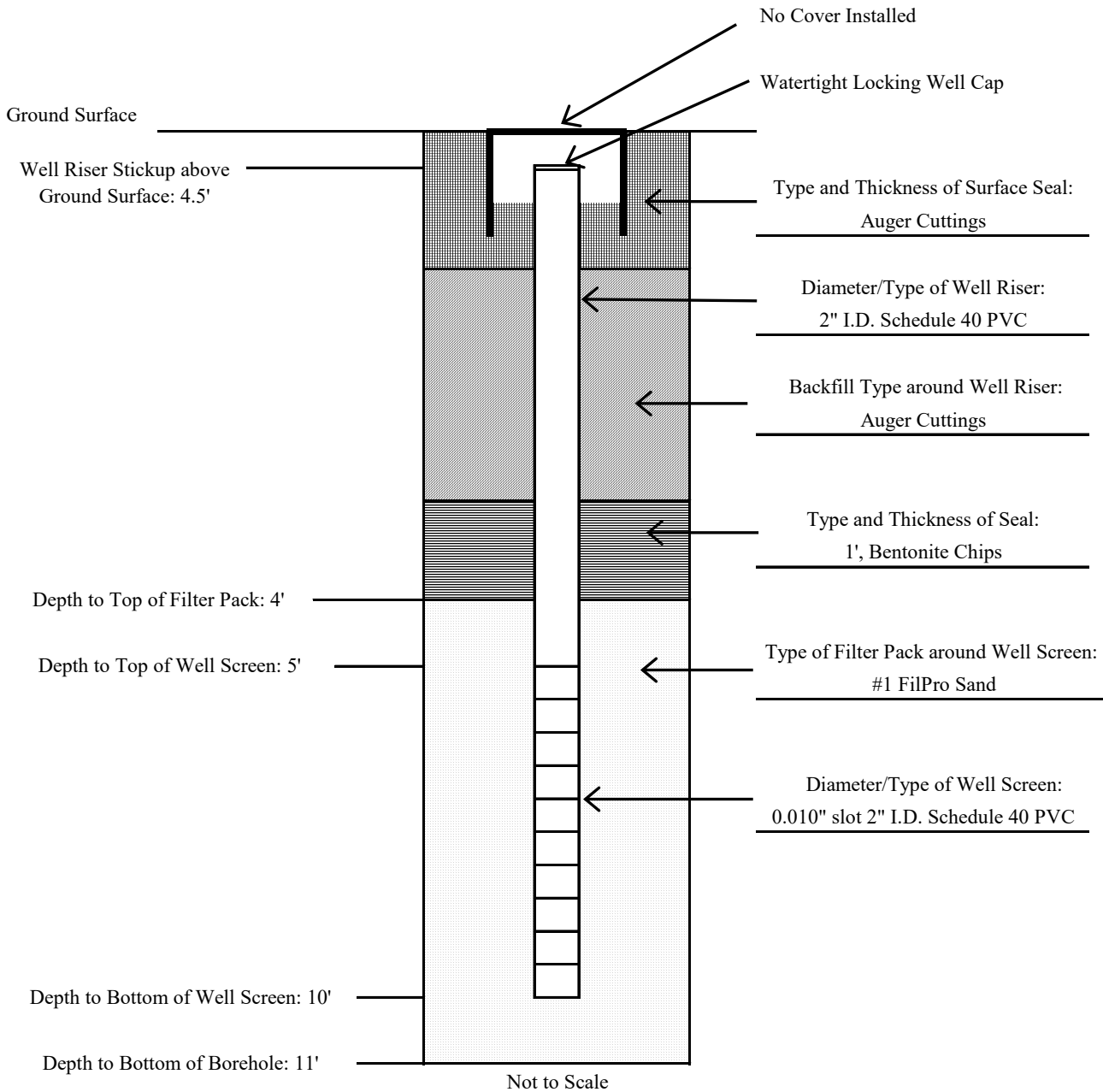


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### MONITORING WELL LOG

**Well No.** W-6  
**Boring No.** B-370

<b>Project Name:</b>	Micron Campus, Clay, New York	<b>Report No.</b>	28062B-03-1223
<b>Client:</b>	Ramboll	<b>Installation Date</b>	11/1/2023
<b>Location:</b>	See Exploration Location Plan	<b>Surface Elevation</b>	393.7'
		<b>Riser Elevation</b>	398.2'
<b>Driller:</b>	Beau Fletcher	<b>Driller:</b>	Ryan Casatelli
		<b>Inspector:</b>	



**Remarks:**

1. See Test Boring Log B-370 for soil information.



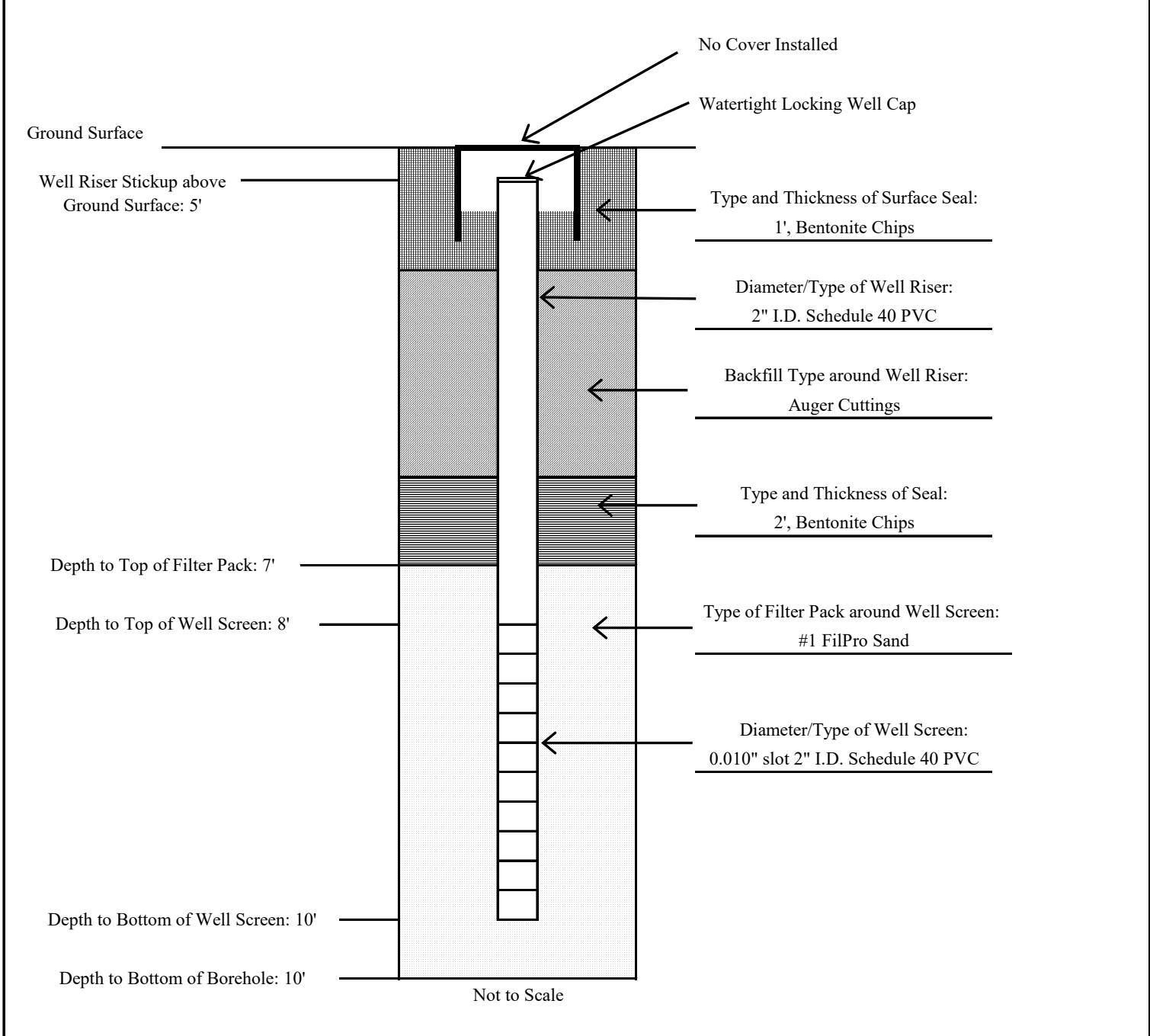
6035 Corporate Drive  
 East Syracuse, NY 13057  
 Phone: 315-701-0522

### MONITORING WELL LOG

**Well No.** W-7

**Boring No.** B-400

<b>Project Name:</b>	Micron Campus, Clay, New York	<b>Report No.</b>	28062B-03-1223
<b>Client:</b>	Ramboll	<b>Installation Date</b>	11/2/2023
<b>Location:</b>	See Exploration Location Plan	<b>Surface Elevation</b>	399.6'
<b>Driller:</b>	Beau Fletcher	<b>Driller:</b>	Ryan Casatelli
		<b>Inspector:</b>	



**Remarks:**

1. See Test Boring Log B-400 for soil information.

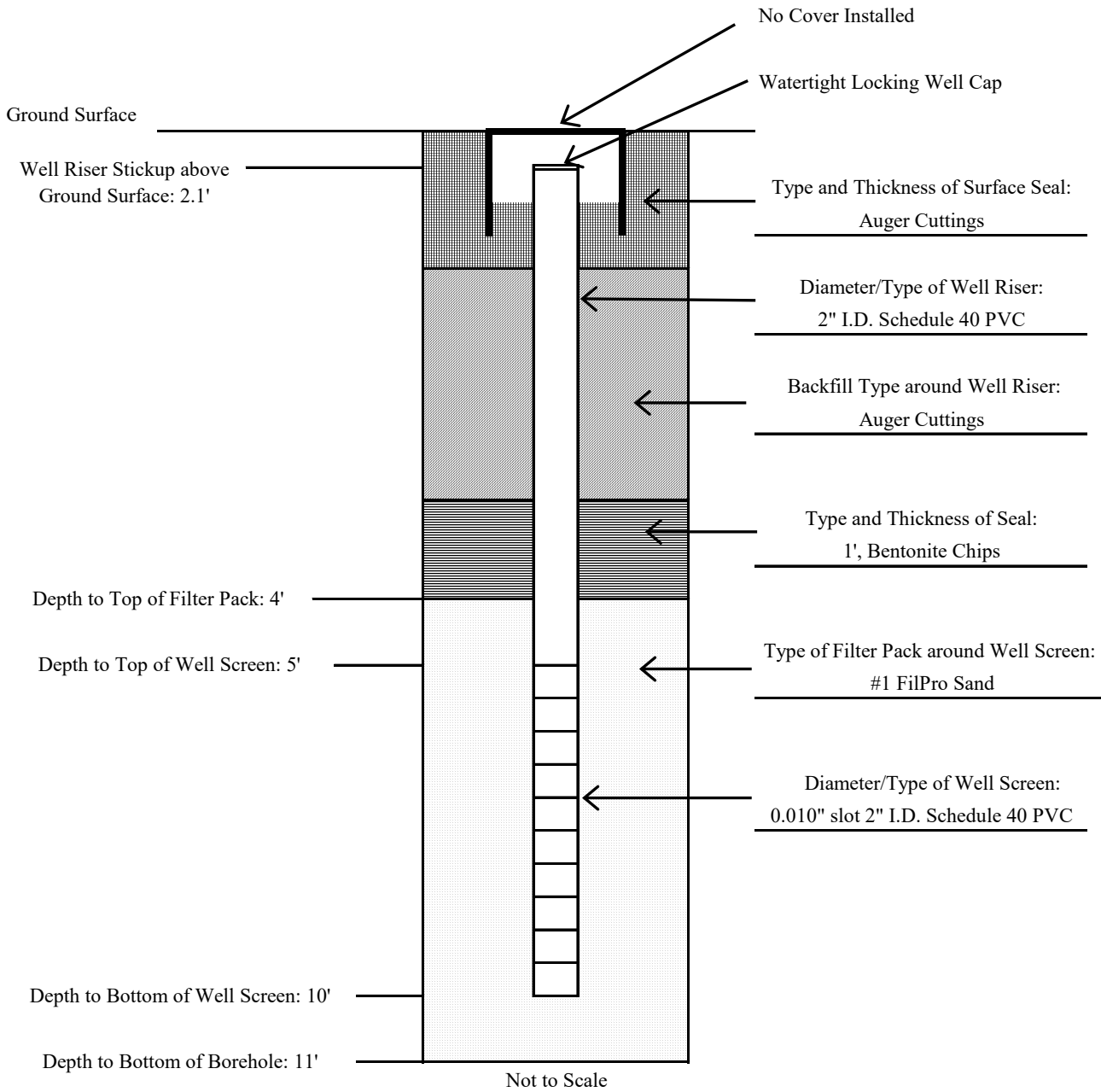


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### MONITORING WELL LOG

<b>Well No.</b>	<b>W-8</b>
<b>Boring No.</b>	B-420

<b>Project Name:</b>	Micron Campus, Clay, New York	<b>Report No.</b>	28062B-03-1223
<b>Client:</b>	Ramboll	<b>Installation Date</b>	11/2/2023
<b>Location:</b>	See Exploration Location Plan	<b>Surface Elevation</b>	390.9'
		<b>Riser Elevation</b>	393'
<b>Driller:</b>	Beau Fletcher	<b>Driller:</b>	Ryan Casatelli
		<b>Inspector:</b>	



**Remarks:**

1. See Test Boring Log B-420 for soil information.



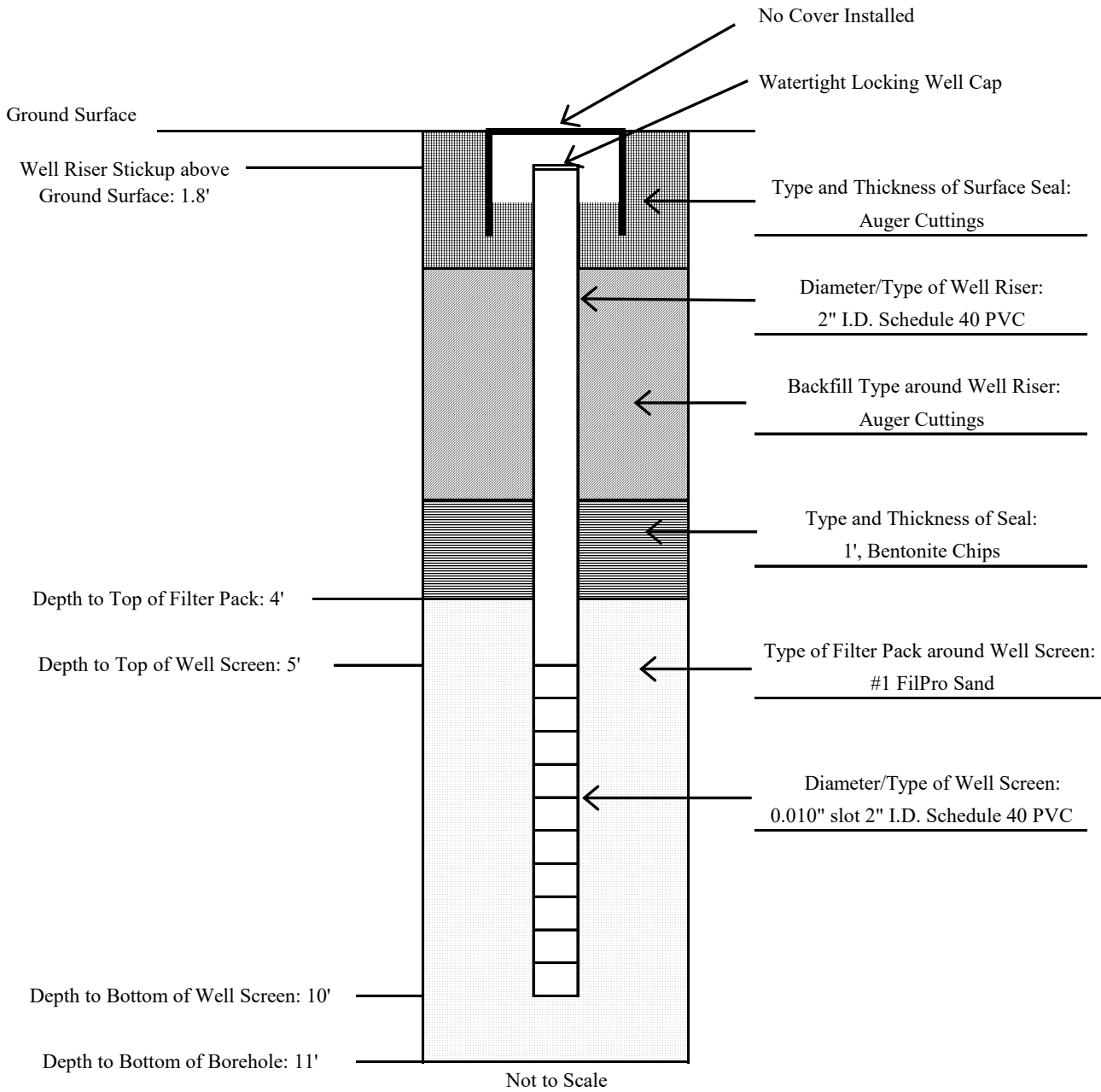
6035 Corporate Drive  
 East Syracuse, NY 13057  
 Phone: 315-701-0522

### MONITORING WELL LOG

**Well No.** W-9

**Boring No.** B-422

<b>Project Name:</b>	Micron Campus, Clay, New York	<b>Report No.</b>	28062B-03-1223
<b>Client:</b>	Ramboll	<b>Installation Date</b>	11/3/2023
<b>Location:</b>	See Exploration Location Plan	<b>Surface Elevation</b>	382'
		<b>Riser Elevation</b>	383.8'
<b>Driller:</b>	Beau Fletcher	<b>Driller:</b>	Ryan Casatelli
		<b>Inspector:</b>	



**Remarks:**

1. See Test Boring Log B-422 for soil information.

# Bedrock Core Photographs

Attachment to CME Report No: 28062B-03-1223



**Photograph 1**                  Boring:    B-13                  Run 1                  Depth    23.8'-28.8'                  See Photographs Nos. 2 and 3 for detailed views.



**Photograph 2**                  B-13                  Run 1                  Top                  Depth    23.8'-26.3'



**Photograph 3**                  B-13                  Run 1                  Bottom                  Depth    26.3'-28.8'

# Bedrock Core Photographs

Attachment to CME Report No: 28062B-03-1223



**Photograph 4**      Boring: B-15      Run 1      Depth 23.8'-28.8'      See Photographs Nos. 5 and 6 for detailed views.



**Photograph 5**      B-15      Run 1      Top      Depth 23.8'-26.3'



**Photograph 6**      B-15      Run 1      Bottom      Depth 26.3'-28.8'



# Bedrock Core Photographs

Attachment to CME Report No: 28062B-03-1223



**Photograph 7**                  Boring:    B-15                  Run 2                  Depth    28.8' - 33.8'                  See Photographs Nos. 8 and 9 for detailed views.



**Photograph 8**                  B-15                  Run 2                  Top                  Depth    28.8' - 31.3'



**Photograph 9**                  B-15                  Run 2                  Bottom                  Depth    31.3' - 33.8'

# Bedrock Core Photographs

Attachment to CME Report No: 28062B-03-1223



**Photograph 10**      Boring: B-30      Run 1      Depth 19.0'-24.0'      See Photographs Nos. 11 and 12 for detailed views.



**Photograph 11**      B-30      Run 1      Top      Depth 19.0'-21.5'



**Photograph 12**      B-30      Run 1      Bottom      Depth 21.5'-24.0'

# Bedrock Core Photographs

Attachment to CME Report No: 28062B-03-1223



**Photograph 13**

Boring: B-35 Run 1 Depth 4.0'-9.0'

See Photographs Nos. 14 and 15 for detailed views.



**Photograph 14**

B-35 Run 1 Bottom Depth 4.0' - 6.5'



**Photograph 15**

B-35 Run 1 Bottom Depth 6.5' - 9.0'

# Bedrock Core Photographs

Attachment to CME Report No: 28062B-03-1223



**Photograph 16**      B-39      Run 1      Bottom      Depth      19.0' - 24.0'      See Photographs Nos. 17 and 18 for detailed views.



**Photograph 17**      B-39      Run 1      Bottom      Depth      19.0' - 21.5'



**Photograph 18**      B-39      Run 1      Bottom      Depth      21.5' - 24.0'

# Bedrock Core Photographs

Attachment to CME Report No: 28062B-03-1223



**Photograph 19**      Boring: B-217      Run 1      Depth 21.9' - 26.9'      See Photographs Nos. 20 and 21 for detailed views.



**Photograph 20**      B-217      Run 1      Top      Depth 21.9' - 24.4'



**Photograph 21**      B-217      Run 1      Bottom      Depth 24.4' - 26.9'

# Bedrock Core Photographs

Attachment to CME Report No: 28062B-03-1223



**Photograph 22**      Boring: B-217      Run 2      Depth 26.9' - 31.9'      See Photographs Nos. 23 and 24 for detailed views.



**Photograph 23**      B-217      Run 2      Top      Depth 26.9' - 29.4'



**Photograph 24**      B-217      Run 2      Bottom      Depth 29.4' - 31.9'

# Bedrock Core Photographs

Attachment to CME Report No: 28062B-03-1223



**Photograph 25**      Boring: B-292    Run 1    Depth 18.5' - 23.5'      See Photographs Nos. 26 and 27 for detailed views.



**Photograph 26**      B-292    Run 1    Top    Depth 18.5' - 21.0'



**Photograph 27**      B-292    Run 1    Bottom    Depth 21.0' - 23.5'

# Bedrock Core Photographs

Attachment to CME Report No: 28062B-03-1223



**Photograph 28**                  Boring:    B-292        Run 2        Depth    23.5' - 28.5'                  See Photographs Nos. 29 and 30 for detailed views.



**Photograph 29**                  B-292        Run 2        Top        Depth    23.5' - 26.0'



**Photograph 30**                  B-292        Run 2        Bottom    Depth    26.0' - 28.5'



# Bedrock Core Photographs

Attachment to CME Report No: 28062B-03-1223



Photograph 31

Boring: B-300 Run 1 Depth 28.0' 33.0'

See Photographs Nos. 32 and 33 for detailed views.



Photograph 32

B-300 Run 1 Top Depth 28.0' - 30.5'



Photograph 33

B-300 Run 1 Bottom Depth 30.5' - 33.0'

# Bedrock Core Photographs

Attachment to CME Report No: 28062B-03-1223



**Photograph 34**                  Boring    B-300    Run 2    Depth    33.0' -38.0'                  See Photographs Nos. 35 and 36 for detailed views.



**Photograph 35**                  B-300    Run 2    Top    Depth    33.0' - 35.5'



**Photograph 36**                  B-300    Run 2    Bottom    Depth    35.5' - 38.0'

# Bedrock Core Photographs

Attachment to CME Report No: 28062B-03-1223



Photograph 37

Boring B-366 Run 1 Depth 17.3' - 22.3'

See Photographs Nos. 38 and 39 for detailed views.



Photograph 38

B-366 Run 1 Top Depth 17.3' - 19.8'



Photograph 39

B-366 Run 1 Bottom Depth 19.8' - 22.3'

# Bedrock Core Photographs

Attachment to CME Report No: 28062B-03-1223



Photograph 40          Boring    B-400    Run 1    Depth    8.8' - 13.8'          See Photographs Nos. 41 and 42 for detailed views.



Photograph 41          B-400    Run 1    Top    Depth    8.8' - 11.3'



Photograph 42          B-400    Run 1    Bottom    Depth    11.3' - 13.8'

# Bedrock Core Photographs

Attachment to CME Report No: 28062B-03-1223



Photograph 43      Boring    B-400    Run 2    Depth    13.8' - 18.8'      See Photographs Nos. 44 and 45 for detailed views.



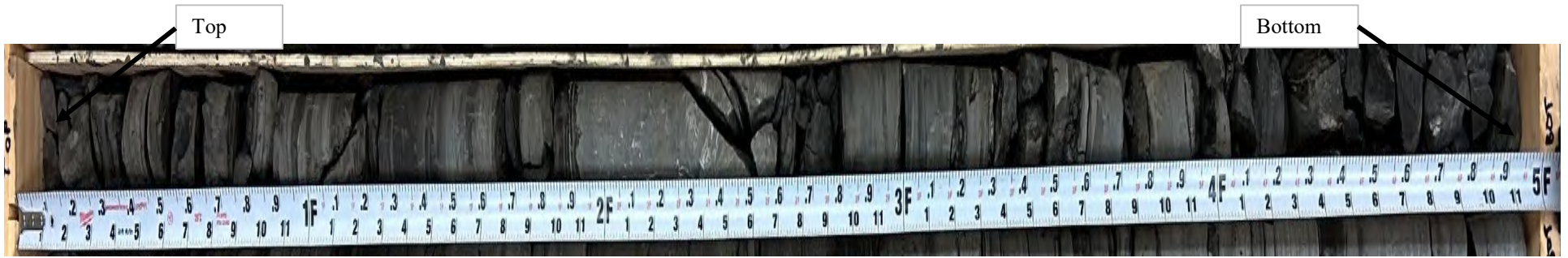
Photograph 44      B-400    Run 2    Top    Depth    13.8' - 16.3'



Photograph 45      B-400    Run 2    Bottom    Depth    16.3' - 18.8'

# Bedrock Core Photographs

Attachment to CME Report No: 28062B-03-1223



Photograph 46      Boring    B-426    Run 1    Depth    22.5' - 27.5'      See Photographs Nos. 47 and 48 for detailed views.



Photograph 47      B-426    Run 1    Top    Depth    22.5' - 25.0'



Photograph 48      B-426    Run 1    Bottom    Depth    25.0' - 27.5'

# Bedrock Core Photographs

Attachment to CME Report No: 28062B-03-1223



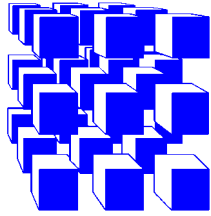
Photograph 49                  Boring    B-426    Run 2    Depth    27.5' - 32.5'                  See Photographs Nos. 50 and 51 for detailed views.



Photograph 50                  B-426    Run 2    Top    Depth    27.5' - 30.0'



Photograph 51                  B-426    Run 2    Bottom    Depth    30.0' - 32.5'



**CME**  
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## LABORATORY TEST SUMMARY REPORT

Micron Campus, Clay, New York

CME Report No.: 28062L-03-1123

November 30, 2023

Page 1 of 19

CME Representatives obtained soil samples from Test Borings and Test Pits advanced as part of the Subsurface Exploration Program conducted for the subject project. Selected samples were delivered to CME's East Syracuse facility, an AASHTO re:source<sup>1</sup> accredited laboratory for various laboratory testing. The results are presented below:

Sample ID Notations: B- Test Boring, S- Sample, R- Rock Core Run, ST- Shelby Tube, TP- Test Pit

### I. Natural Moisture Content (ASTM D2216)

Sample ID	Natural Moisture (%)	Sample ID	Natural Moisture (%)
B-217; S-1A	34.2	B-300; S-8	25.1
B-217; S-1B	23.6	B-300; S-9	2.7
B-217; S-2	26.7	B-15; S-7	15.1
B-217; S-3	26.8	B-206; S-6	19.2
B-217; S-4	24.6	B-216; S-6	19.8
B-217; S-5	23.2	B-218; S-6	23.3
B-217; S-6	23.5	B-308; S-7	15.0
B-217; S-7	7.6	B-326A; S-6	26.5
B-217; S-8	No Recovery	B-328; S-7	16.2
B-300; S-1	18.5	B-339; S-6	23.1
B-300; S-2	27.4	B-409; S-7	14.2
B-300; S-3	25.0	B-418; S-7	17.2
B-300; S-4	12.8	TP-1; S-1	29.5
B-300; S-5A	26.9	TP-2; S-1	27.0
B-300; S-5B	8.1	TP-3; S-1	11.6
B-300; S-6	6.9	TP-4; S-1	18.1
B-300; S-7	20.6	TP-5; S-1	19.1

<sup>1</sup>AASHTO re:source – American Association of State Highway & Transportation Officials (AASHTO) Materials Reference Laboratory, a Federal Agency having jurisdiction to assess laboratory competency according to the Standards of the United States of America. CME East Syracuse accreditation includes testing of Portland Cement Concrete, Aggregate and Soil Materials. [www.AASHTOresource.org](http://www.AASHTOresource.org).





**II. Atterberg Limits Testing (ASTM D4318)**

Sample ID	Liquid Limit	Plastic Limit	Plasticity Index	Natural Moisture (%)
B-15; S-7	18	13	5	15.1
B-206; S-6	23	14	9	19.2
B-216; S-6	19	13	6	19.8
B-218; S-6	Non-Plastic			23.3
B-308; S-7	19	12	7	15.0
B-326A; S-6	18	14	4	26.5
B-328; S-7	14	12	2	16.2
B-339; S-6	19	15	4	23.1
B-409; S-7	15	11	4	14.2
B-418; S-7	16	14	2	17.2

**III. Particle Size Analysis (ASTM D422)**

Sample #

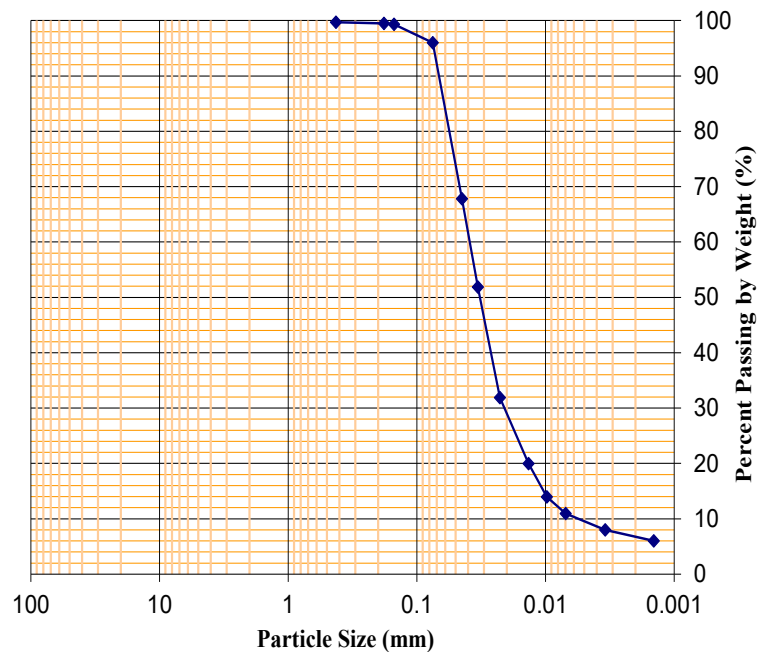
B-13; S-6

Classification

Grey SILT, trace CLAY, trace fine SAND

<u>Sieve Designation</u>	<u>Size (mm)</u>	<u>Percent Passing by Weight (%)</u>
No.40	0.425	100
No.80	0.180	99
No.100	0.150	99
No.200	0.075	96
Hydrometer	0.045	68
	0.033	52
	0.023	32
	0.014	20
	0.010	14
	0.007	11
	0.003	8.0
	0.001	6.0

Grain Size Distribution Curve





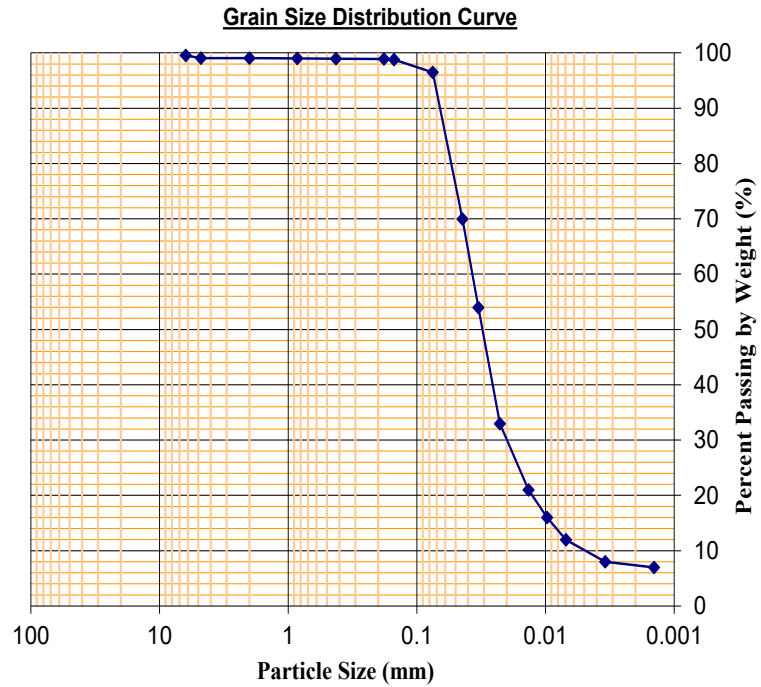
**Sample #**

B-88; S-3

**Classification**

Brown SILT, little CLAY, trace cmf SAND, trace fine GRAVEL

<u>Sieve Designation</u>	<u>Size (mm)</u>	<u>Percent Passing by Weight (%)</u>
1/4"	6.25	100
No.4	4.75	99
No.10	2.00	99
No.20	0.850	99
No.40	0.425	99
No.80	0.180	99
No.100	0.150	99
No.200	0.075	96
Hydrometer	0.044	70
	0.033	54
	0.023	33
	0.014	21
	0.010	16
	0.007	12
	0.003	8.0
	0.001	7.0



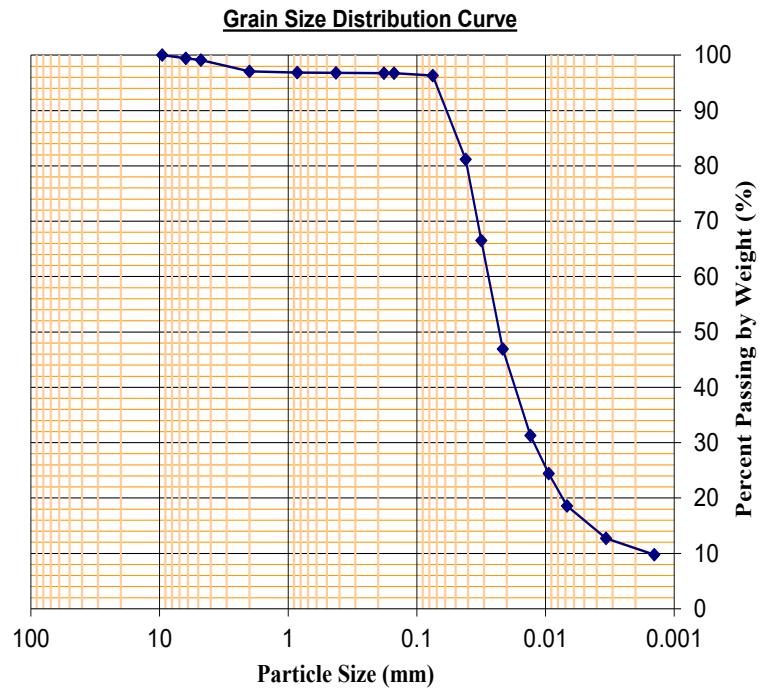
**Sample #**

B-207; S-6

**Classification**

Grey SILT, little CLAY, trace cmf SAND, trace fine GRAVEL

<u>Sieve Designation</u>	<u>Size (mm)</u>	<u>Percent Passing by Weight (%)</u>
3/8"	9.5	100
1/4"	6.25	99
No.4	4.75	99
No.10	2.00	97
No.20	0.850	97
No.40	0.425	97
No.80	0.180	97
No.100	0.150	97
No.200	0.075	96
Hydrometer	0.042	81
	0.031	66
	0.021	47
	0.013	31
	0.009	24
	0.007	19
	0.003	13
	0.001	10





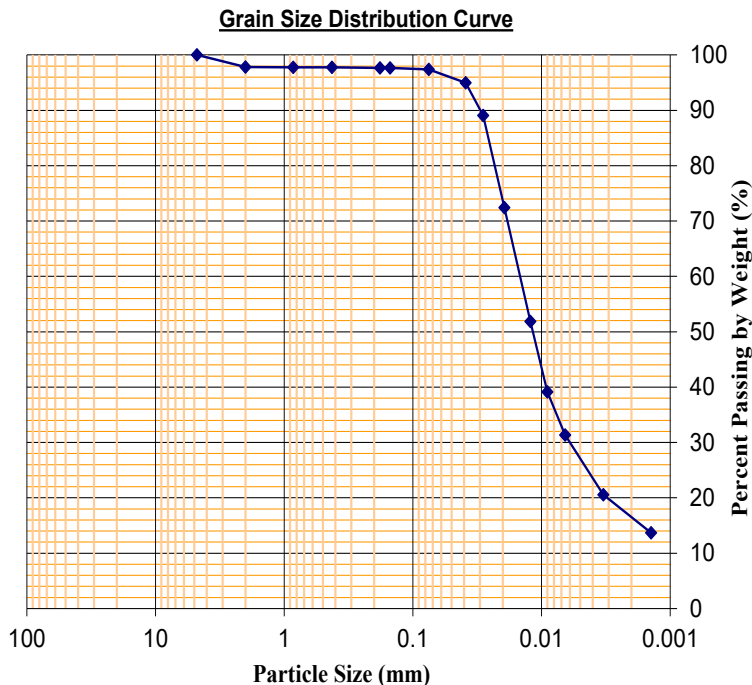
**Sample #**

B-212; S-3

**Classification**

Brown SILT, some CLAY, trace cmf SAND

Sieve Designation	Size (mm)	Percent Passing by Weight (%)
No.4	4.75	100
No.10	2.00	98
No.20	0.850	98
No.40	0.425	98
No.80	0.180	98
No.100	0.150	98
No.200	0.075	97
Hydrometer	0.039	95
	0.028	89
	0.019	72
	0.012	52
	0.009	39
	0.007	31
	0.003	21
	0.001	14



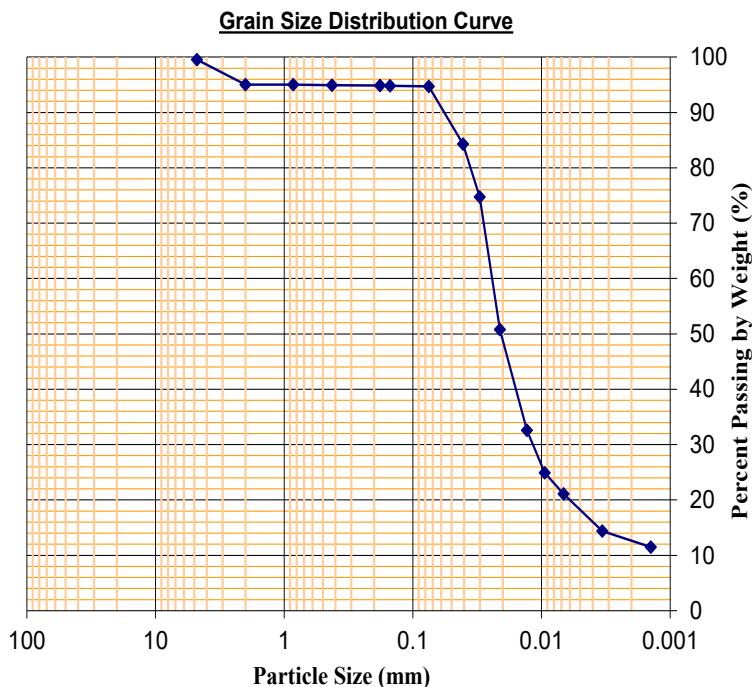
**Sample #**

B-303; S-3

**Classification**

Brown SILT, little CLAY, trace cmf SAND

Sieve Designation	Size (mm)	Percent Passing by Weight (%)
No.4	4.75	100
No.10	2.00	95
No.20	0.850	95
No.40	0.425	95
No.80	0.180	95
No.100	0.150	95
No.200	0.075	95
Hydrometer	0.041	84
	0.030	75
	0.021	51
	0.013	33
	0.009	25
	0.007	21
	0.003	14
	0.001	11





**Sample #**

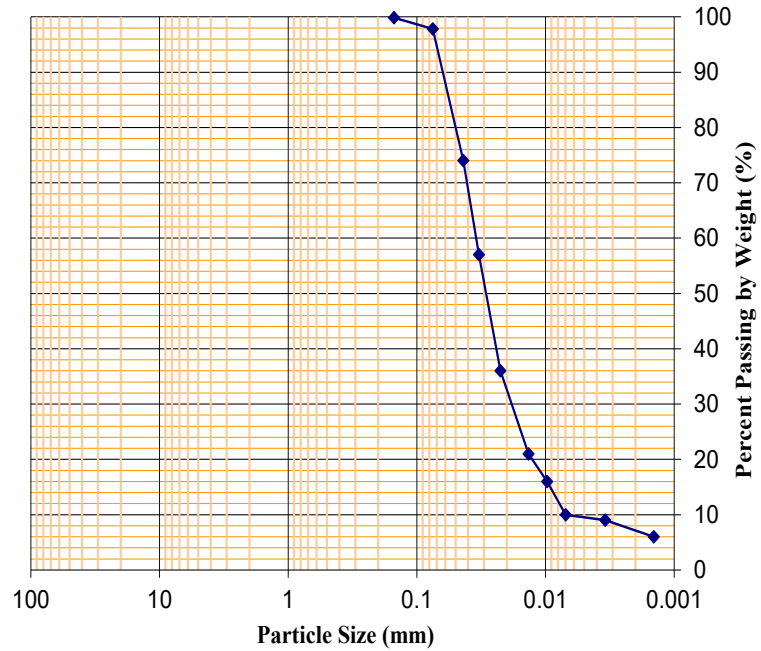
B-412; S-4

**Classification**

Brown SILT, trace CLAY, trace fine SAND

<u>Sieve Designation</u>	<u>Size (mm)</u>	<u>Percent Passing by Weight (%)</u>
No.100	0.150	100
No.200	0.075	98
Hydrometer	0.043	74
	0.033	57
	0.022	36
	0.014	21
	0.010	16
	0.007	10
	0.003	9.0
	0.001	6.0

**Grain Size Distribution Curve**



**Sample #**

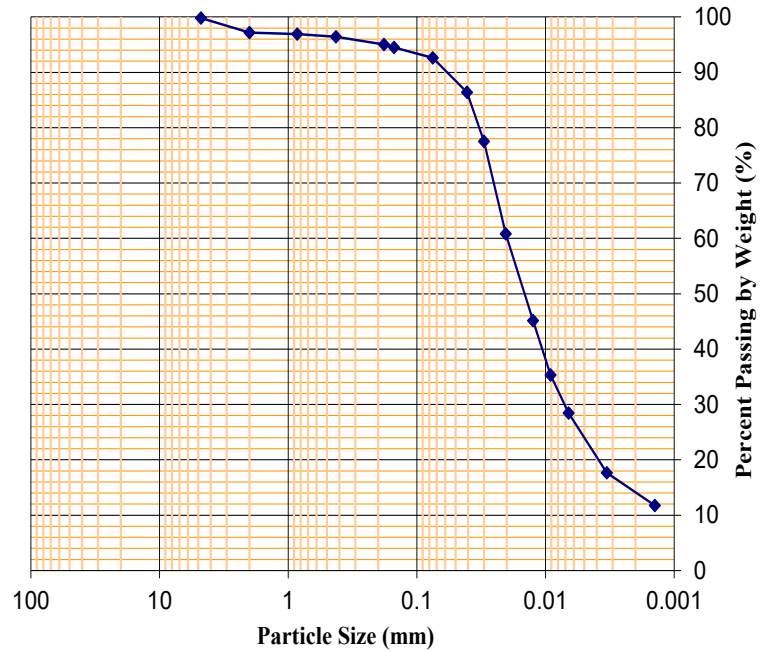
B-421; S-6

**Classification**

Light Grey SILT, some CLAY, trace cmf SAND

<u>Sieve Designation</u>	<u>Size (mm)</u>	<u>Percent Passing by Weight (%)</u>
No.4	4.75	100
No.10	2.00	97
No.20	0.850	97
No.40	0.425	96
No.80	0.180	95
No.100	0.150	94
No.200	0.075	93
Hydrometer	0.041	86
	0.030	78
	0.020	61
	0.012	45
	0.009	35
	0.007	28
	0.003	18
	0.001	12

**Grain Size Distribution Curve**





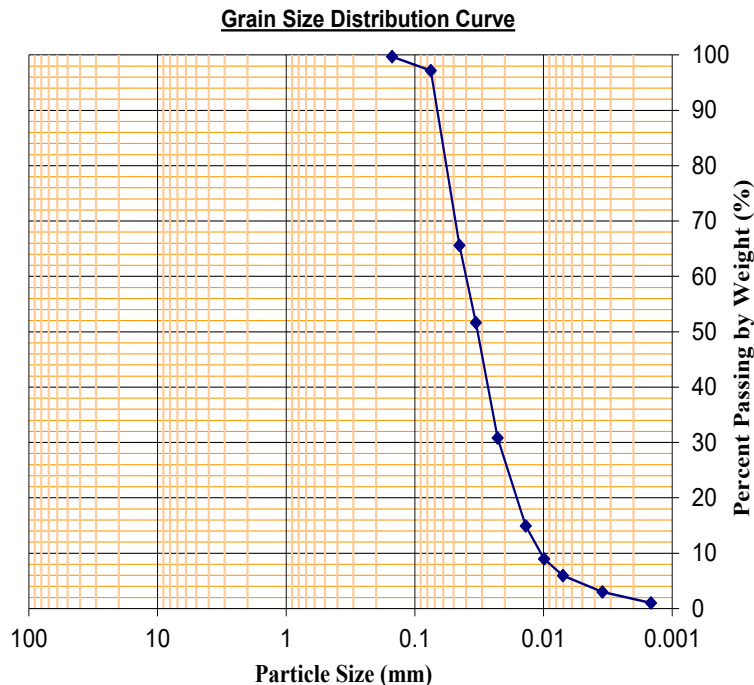
**Sample #**

B-428; S-6

**Classification**

Light Brown SILT, trace CLAY, trace fine SAND

Sieve Designation	Size (mm)	Percent Passing by Weight (%)
No.100	0.150	100
No.200	0.075	97
Hydrometer	0.045	66
	0.033	52
	0.023	31
	0.014	15
	0.010	8.9
	0.007	6.0
	0.003	3.0
	0.001	1.0



**IV. Rock Core Compression (ASTM D7012 Method C)**

**A) Testing Conditions:**

Tested by:	H.K.	Moisture Condition:	Laboratory air-dry	Equipment:	Forney QC-400-DR
Date of Test:	11/16/23	Load Direction:	Generally perpendicular to laminations		

**B) Core Identification and Location:**

Core ID	Depth	Description
B-292; R-1	18.6' – 19.1'	Dark Grey/Black DOLOSTONE with interbedded SHALE layers (<1/8" thick) throughout, slightly to moderately weathered, thinly to thickly bedded, medium hard to hard.
B-300; R-1	29.3' – 29.7'	Grey SHALE Bedrock, sound, bedded, medium soft.
B-400; R-1	9.3' – 9.7'	Dark Grey/Black DOLOSTONE with interbedded SHALE layers (<1/8" to 1" thick) throughout, moderately weathered, laminated to medium bedded, medium hard to hard.

**C) Core Measurements:**

Core ID	Core Diameter (inch)	Length (in.)	Length to Diameter	Mass (g)	Density (lb./ft <sup>3</sup> )
B-292; R-1	1.97	3.85	1.95	533.43	173
B-300; R-1	2.00	4.03	2.01	553.36	167
B-400; R-1	1.97	3.93	1.99	552.31	176

**D) Compression Test Results:**

Core ID	Specimen Area (inch <sup>2</sup> )	Total Load (lbs.)	Compressive Strength (psi)	Temperature (°C)	Time to Failure (seconds)	Rate of Loading (psi/sec)
B-292; R-1	3.05	62,000	20,330	22	103.58	196
B-300; R-1	3.14	34,000	10,830	22	89.75	121
B-400; R-1	3.05	43,500	14,260	22	168.22	85

**V. DIPRA Test (Appendix A of ANSI/AWWA C105/A21.5)**

Table 1- Sample Information		
Sample ID	Sample Depth (ft.)	Sample Description
B-39; S-3	4.0'-6.0'	Brown cmf SAND and SILT, trace fine GRAVEL (wet, stiff)
B-162; S-3	4.0'-6.0'	Light Brown SILT, trace fine SAND (moist, stiff)
B-281; S-3	4.0'-6.0'	Grey/Light Brown cmf GRAVEL, little SILT, trace fine SAND
B-306; S-3	4.0'-6.0'	Brown/Grey SILT, little CLAY, trace fine SAND (wet, stiff)
B-401; S-3	4.0'-6.0'	Brown SILT, some cmf SAND, trace mf GRAVEL, trace CLAY (wet, soft)

Table 2- DIPRA Test Results						
Sample ID	Resistivity ohm-cm.	Redox Potential (mv)	pH	Sulfides	Moisture	DIPRA Points
B-39; S-3	14,000	127	7.86	Negative	Poor	2
B-162; S-3	14,340	126	8.15	Negative	Poor	2
B-281; S-3	13,940	146	7.21	Negative	Fair	1
B-306; S-3	4,970	175	7.53	Negative	Poor	2
B-401; S-3	18,970	165	8.45	Negative	Poor	2

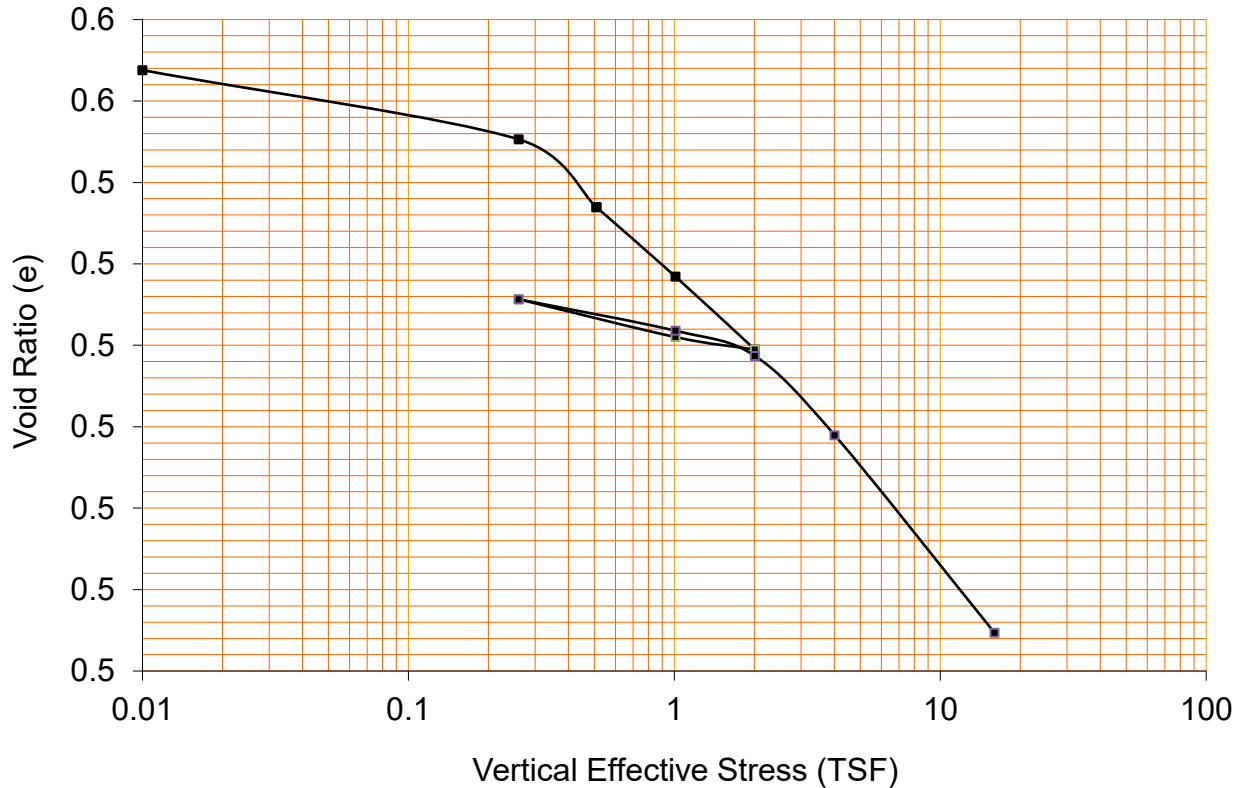
For a given soil sample, each parameter is evaluated and assigned points as outlined in the form in the Attachment: *Soil Test Evaluation for Ductile Iron Pipe; 10-Point System*. A total of 10 points or more indicates that the soil is potentially corrosive to iron pipe and warrants taking protective measures.



**VI. One-Dimensional Consolidation Test (ASTM D2435)**

1) Boring: B-206A      Sample: ST-1; S-1 (Depth = 14.3')

Vertical Effective Stress vs. Void Ratio



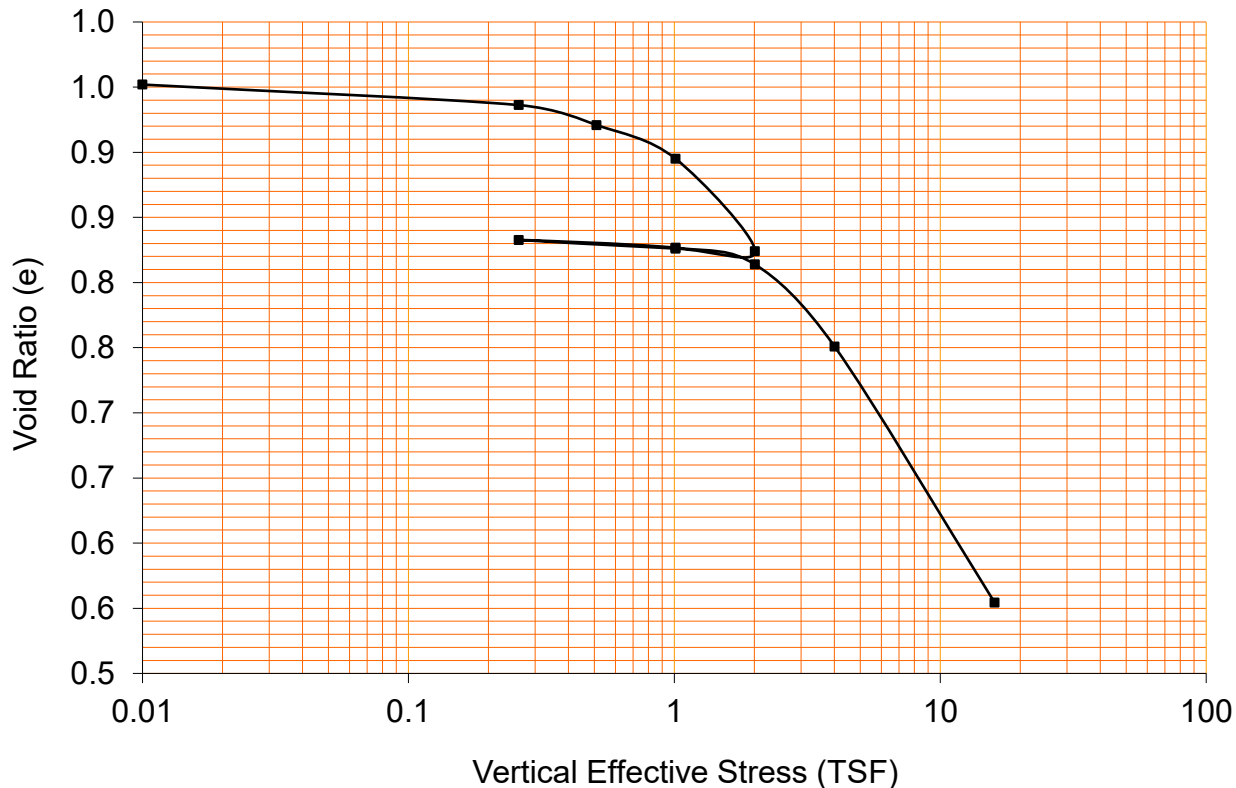
**Pre-consolidation Pressure (P')** = N/A (Normally Consolidated)  
**Compression Index (Cc)** = 0.04  
**Re-compression Index (Cr)** = 0.01  
**Initial Void Ratio (e<sub>0</sub>)** = 0.55  
**Initial Water Content (W<sub>n</sub>)** = 21.6%  
**Dry Unit Weight Before Testing (γ<sub>d</sub>)** = 108.3 pcf  
**Specific Gravity** = 2.70  
**Classification:** = Grey SILT and CLAY  
**Coefficient of Consolidation (C<sub>v</sub>):**

Vertical Effective Stress (tsf)	Coefficient of Consolidation (C <sub>v</sub> , ft <sup>2</sup> /month)		
	Log of Time Method	Square Root of Time Method	Average
0.26	4.01	6.86	5.44
0.51	28.09	36.27	32.18
1.01	21.07	16.12	18.60



1) Boring: B-206A      Sample: ST-1; S-2 (Depth = 15.7')

Vertical Effective Stress vs. Void Ratio



- Pre-consolidation Pressure (P') = N/A (Normally Consolidated)
- Compression Index (Cc) = 0.33
- Re-compression Index (Cr) = 0.01
- Initial Void Ratio (e<sub>0</sub>) = 0.95
- Initial Water Content (W<sub>n</sub>) = 32.8%
- Dry Unit Weight Before Testing (γ<sub>d</sub>) = 88.3 pcf
- Specific Gravity = 2.76
- Classification: = Grey CLAY and SILT
- Coefficient of Consolidation (C<sub>v</sub>):

Vertical Effective Stress (tsf)	Coefficient of Consolidation (C <sub>v</sub> , ft <sup>2</sup> /month)		
	Log of Time Method	Square Root of Time Method	Average
0.26	14.04	21.46	17.75
0.51	21.07	29.98	25.53
1.01	2.72	4.80	3.76



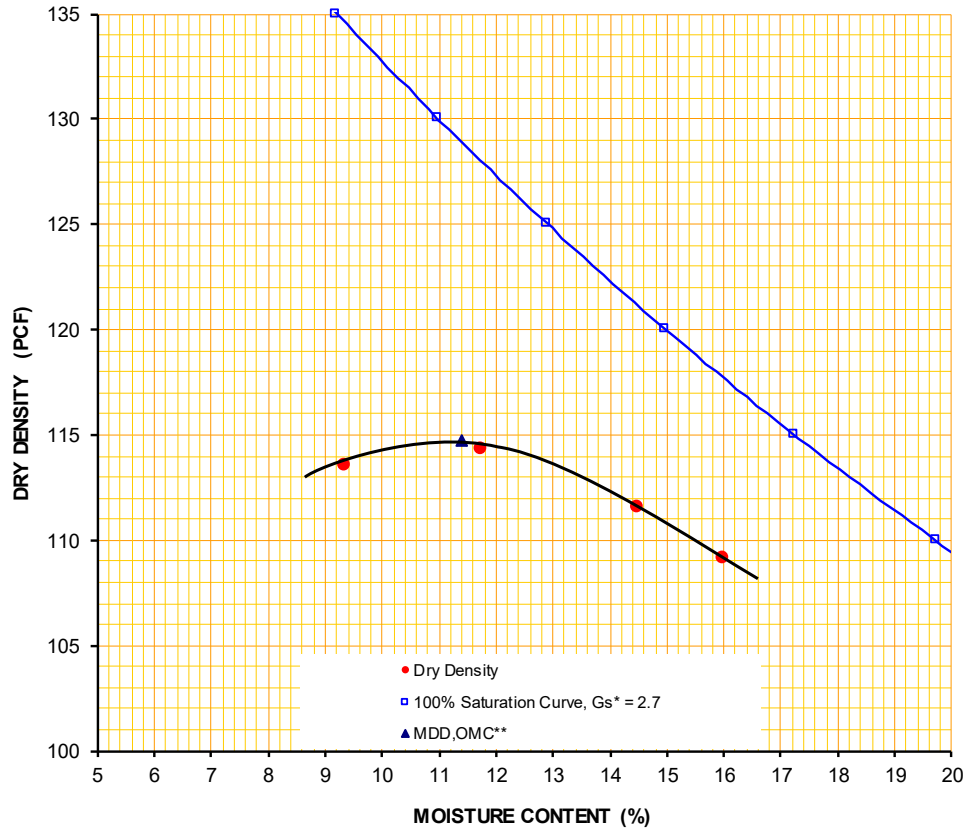


**VII. Moisture-Density Relationship (ASTM D1557: Modified Proctor)**

SAMPLE LOCATION:	Test Pit TP-1	DATE SAMPLED:	11/8/23
SOIL CLASSIFICATION:	Brown Mottled SILT, little CLAY, trace mf GRAVEL, trace cmf SAND	SAMPLE NO.:	S-1

**Moisture - Density Relationship Curve**

**Particle Size Analysis ASTMD422**



Sieve Size	% Passing
2"	100
1-1/2"	100
1"	100
3/4"	100
1/2"	99
3/8"	97
1/4"	90
No.4	90
No.10	90
No.20	89
No.40	88
No.80	87
No.100	87
No.200	86

**Test Procedure Information**

- Test Method  ASTM D-1557 (Modified)  ASTM D-698 (Standard)  
 Procedure Used  A  B  C  
 Preparation Method  Dry  Moist  
 Description of Rammer  Manual  Mechanical

**Test Results**

MDD (PCF) = 114.7  
 OMC (%) = 11.4

Oversize Fraction by Dry Weight  0% Retained on  No.4 Sieve  3/8" Sieve  3/4" Sieve

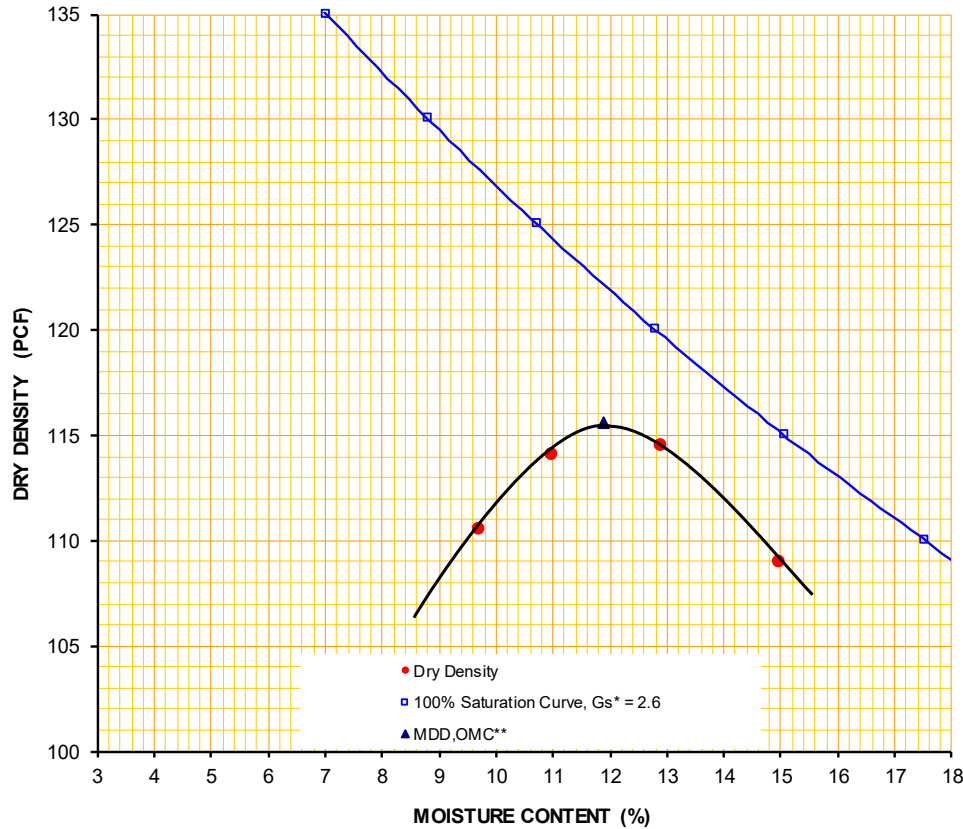
\* Specific Gravity, estimated  
 \*\* MDD = Maximum Dry Density, OMC = Optimum Moisture Content



SAMPLE LOCATION:	Test Pit TP-2	DATE SAMPLED:	11/8/23
SOIL CLASSIFICATION:	Brown Mottled SILT, little CLAY, trace mf GRAVEL, trace mf SAND	SAMPLE NO.:	S-1

**Moisture - Density Relationship Curve**

**Particle Size Analysis ASTMD422**



Sieve Size	% Passing
2"	100
1-1/2"	100
1"	100
3/4"	100
1/2"	99
3/8"	97
1/4"	92
No.4	92
No.10	92
No.20	92
No.40	92
No.80	92
No.100	92
No.200	91

**Test Procedure Information**

- Test Method  ASTM D-1557 (Modified)  ASTM D-698 (Standard)
- Procedure Used  A  B  C
- Preparation Method  Dry  Moist
- Description of Rammer  Manual  Mechanical

**Test Results**

MDD (PCF) = 115.6  
 OMC (%) = 11.9

Oversize Fraction by Dry Weight

0 % Retained on  No.4 Sieve  3/8" Sieve  3/4" Sieve

\* Specific Gravity, estimated

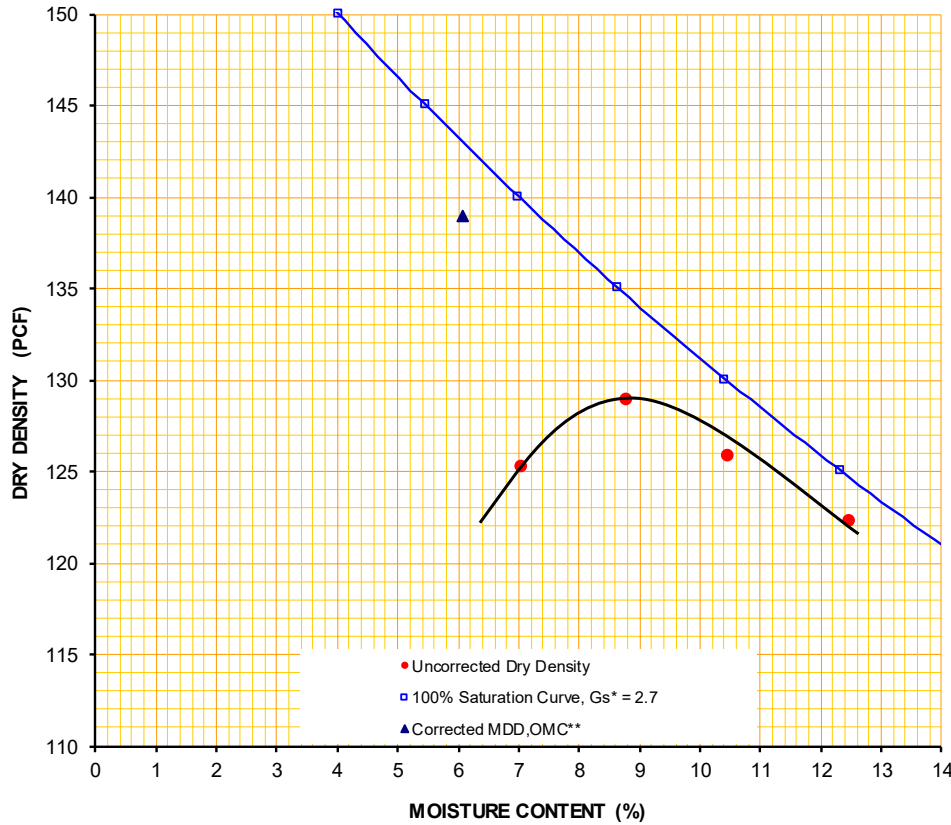
\*\* MDD = Maximum Dry Density, OMC = Optimum Moisture Content



SAMPLE LOCATION:	Test Pit TP-3	DATE SAMPLED:	11/8/23
SOIL CLASSIFICATION:	Brown/Grey SILT, some cmf SAND, some cmf GRAVEL, little COBBLES	SAMPLE NO.:	S-1

**Moisture - Density Relationship Curve**

**Particle Size Analysis ASTMD422**



Sieve Size	% Passing
6"	100
5"	100
4"	90
3"	82
2"	77
1-1/2"	73
1"	71
3/4"	68
1/2"	65
3/8"	63
1/4"	61
No.4	59
No.10	56
No.20	52
No.40	50
No.80	42
No.100	40
No.200	32

**Test Procedure Information**

**Test Results**

- Test Method  ASTM D-1557 (Modified)  ASTM D-698 (Standard)  
 Procedure Used  A  B  C  
 Preparation Method  Dry  Moist  
 Description of Rammer  Manual  Mechanical

Corrected MDD (PCF) = **138.9**  
 Corrected OMC (%) = **6.1**

Oversize Fraction by Dry Weight  
 32% Retained on  No. 4 Sieve  3/8" Sieve  3/4" Sieve

\* Specific Gravity, estimated

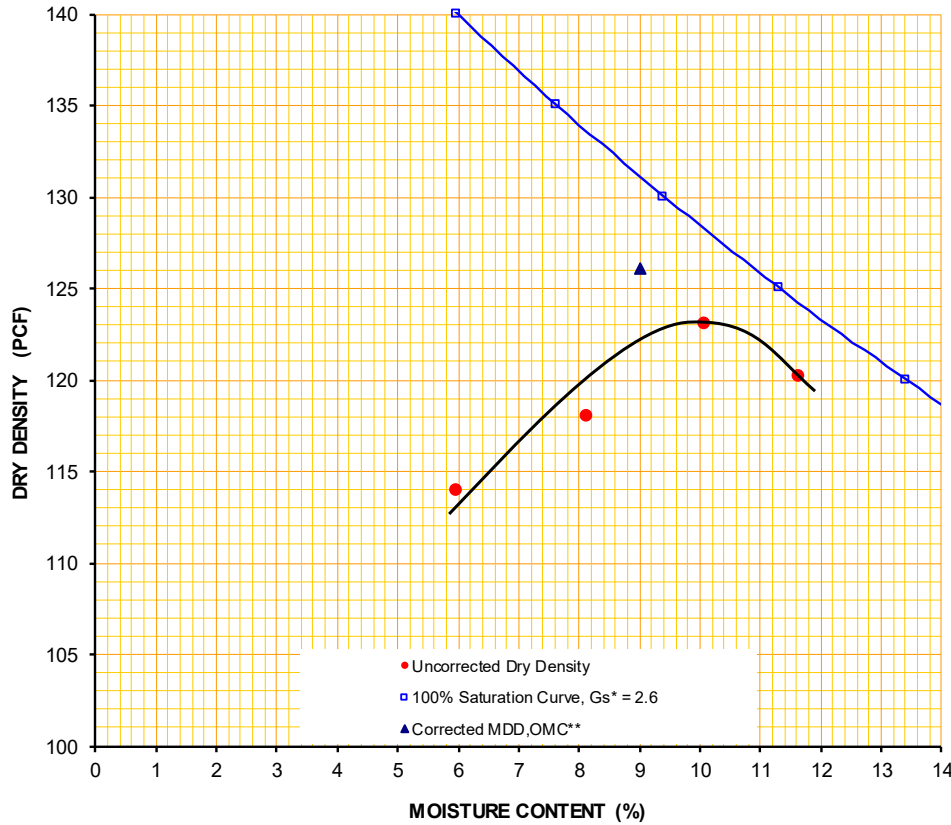
\*\* MDD = Maximum Dry Density, OMC = Optimum Moisture Content



SAMPLE LOCATION:	Test Pit TP-4	DATE SAMPLED:	11/8/23
SOIL CLASSIFICATION:	Brown SILT and cmf SAND, little cmf GRAVEL, trace COBBLES	SAMPLE NO.:	S-1

**Moisture - Density Relationship Curve**

**Particle Size Analysis ASTM D422**



Sieve Size	% Passing
6"	100
5"	100
4"	100
3"	98
2"	94
1-1/2"	94
1"	92
3/4"	91
1/2"	88
3/8"	87
1/4"	85
No.4	83
No.10	80
No.20	78
No.40	75
No.80	65
No.100	61
No.200	48

**Test Procedure Information**

- Test Method  ASTM D-1557 (Modified)  ASTM D-698 (Standard)  
 Procedure Used  A  B  C  
 Preparation Method  Dry  Moist  
 Description of Rammer  Manual  Mechanical

**Test Results**

Corrected MDD (PCF) = **126.1**  
 Corrected OMC (%) = **9.0**

Oversize Fraction by Dry Weight  
 9 % Retained on  No. 4 Sieve  3/8" Sieve  3/4" Sieve

\* Specific Gravity, estimated

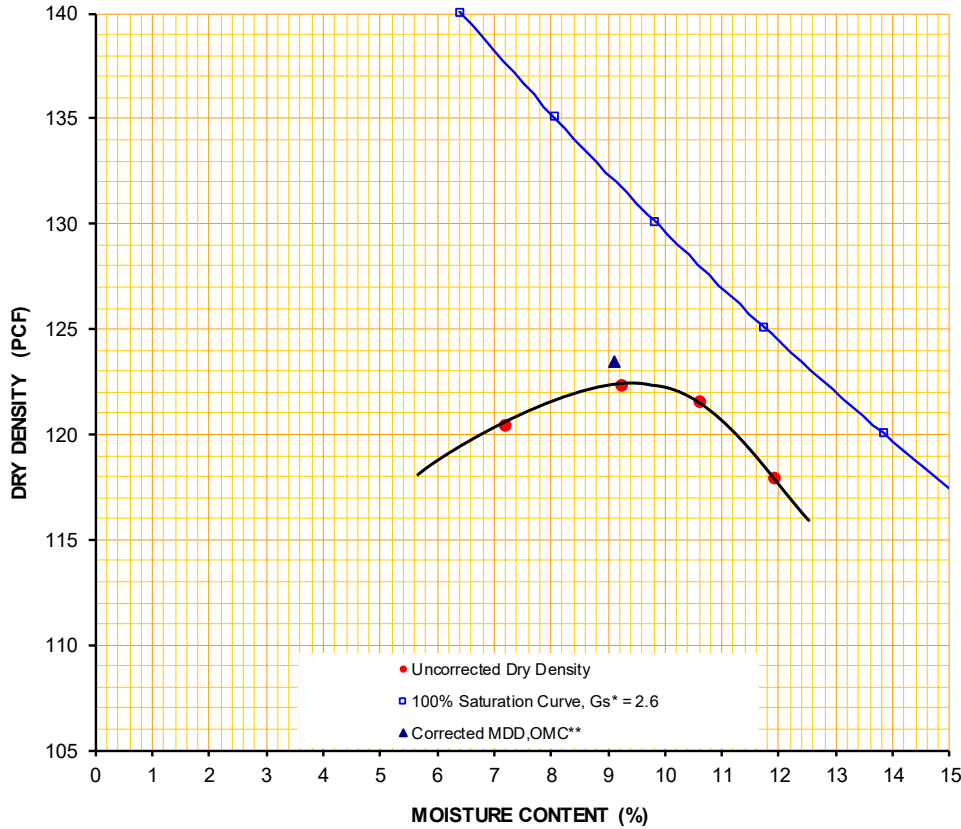
\*\* MDD = Maximum Dry Density, OMC = Optimum Moisture Content



SAMPLE LOCATION:	Test Pit TP-5	DATE SAMPLED:	11/8/23
SOIL CLASSIFICATION:	Brown SILT, some cmf SAND, little cmf GRAVEL	SAMPLE NO.:	S-1

**Moisture - Density Relationship Curve**

**Particle Size Analysis ASTM D422**



Sieve Size	% Passing
2"	100
1-1/2"	99
1"	98
3/4"	97
1/2"	93
3/8"	89
1/4"	83
No.4	81
No.10	78
No.20	76
No.40	73
No.80	64
No.100	61
No.200	52

**Test Procedure Information**

**Test Results**

Test Method  ASTM D-1557 (Modified)  ASTM D-698 (Standard)  
 Procedure Used  A  B  C  
 Preparation Method  Dry  Moist  
 Description of Rammer  Manual  Mechanical

Corrected MDD (PCF) = 123.5  
 Corrected OMC (%) = 9.1

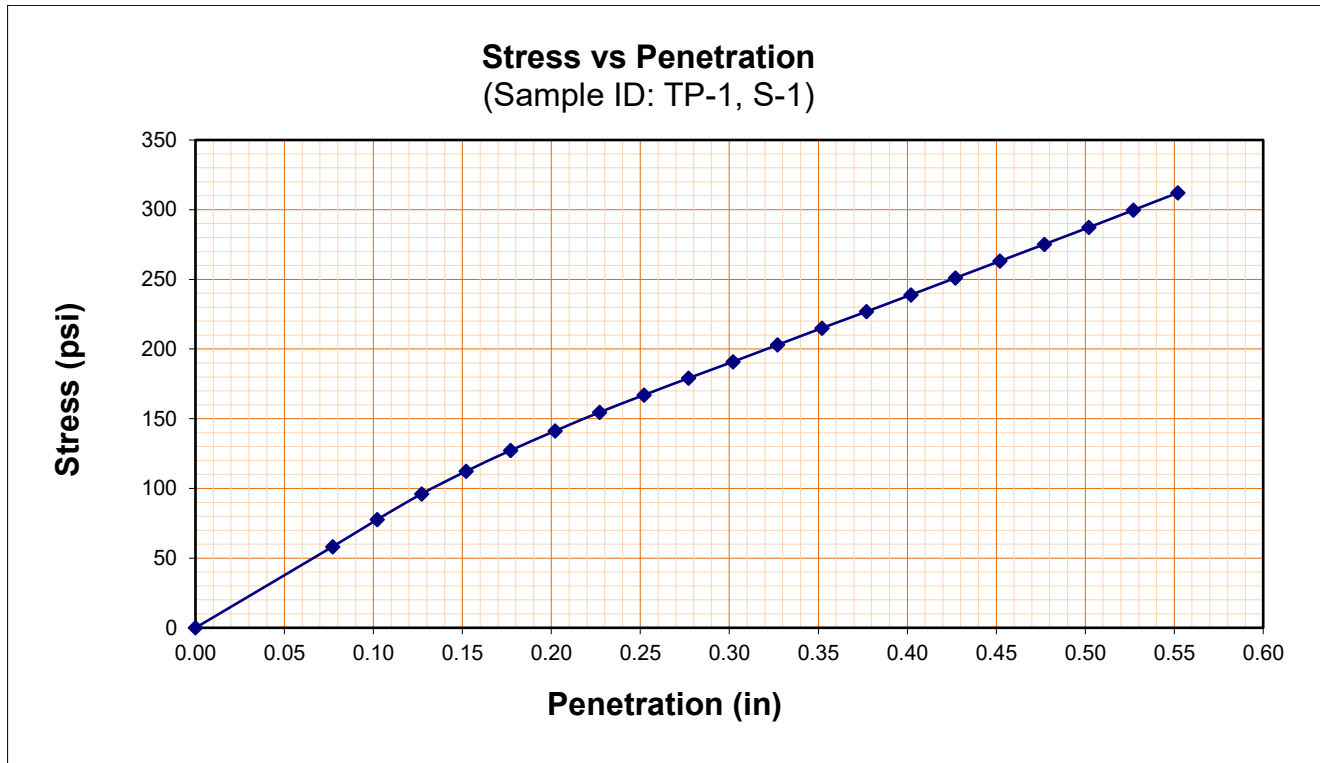
Oversize Fraction by Dry Weight  
 3% Retained on  No. 4 Sieve  3/8" Sieve  3/4" Sieve

\* Specific Gravity, estimated

\*\* MDD = Maximum Dry Density, OMC = Optimum Moisture Content

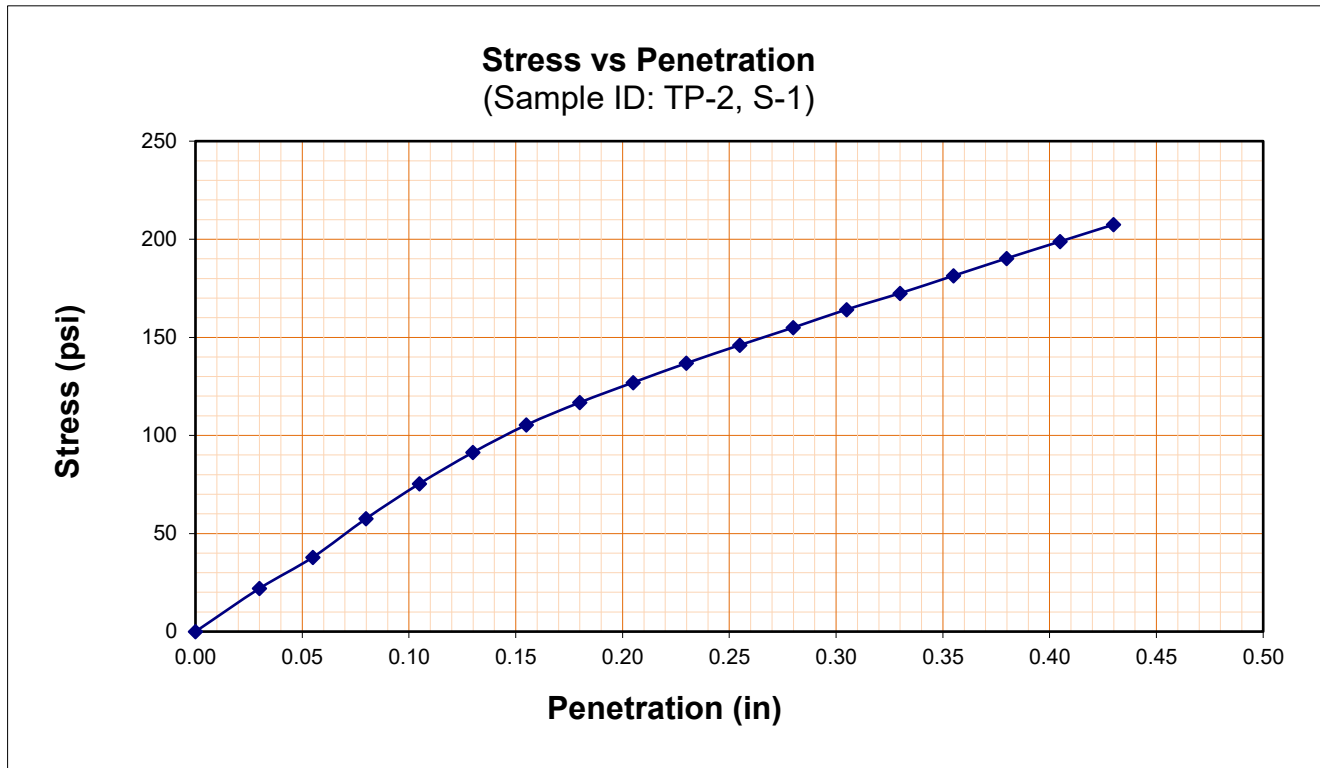


### VIII. CBR (California Bearing Ratio) of Laboratory-Compacted Soils (ASTM D1883)



**Burmister Classification:** Brown Mottled SILT, little CLAY, trace mf GRAVEL, trace cmf SAND  
**Sample Depth:** 2' – 4'

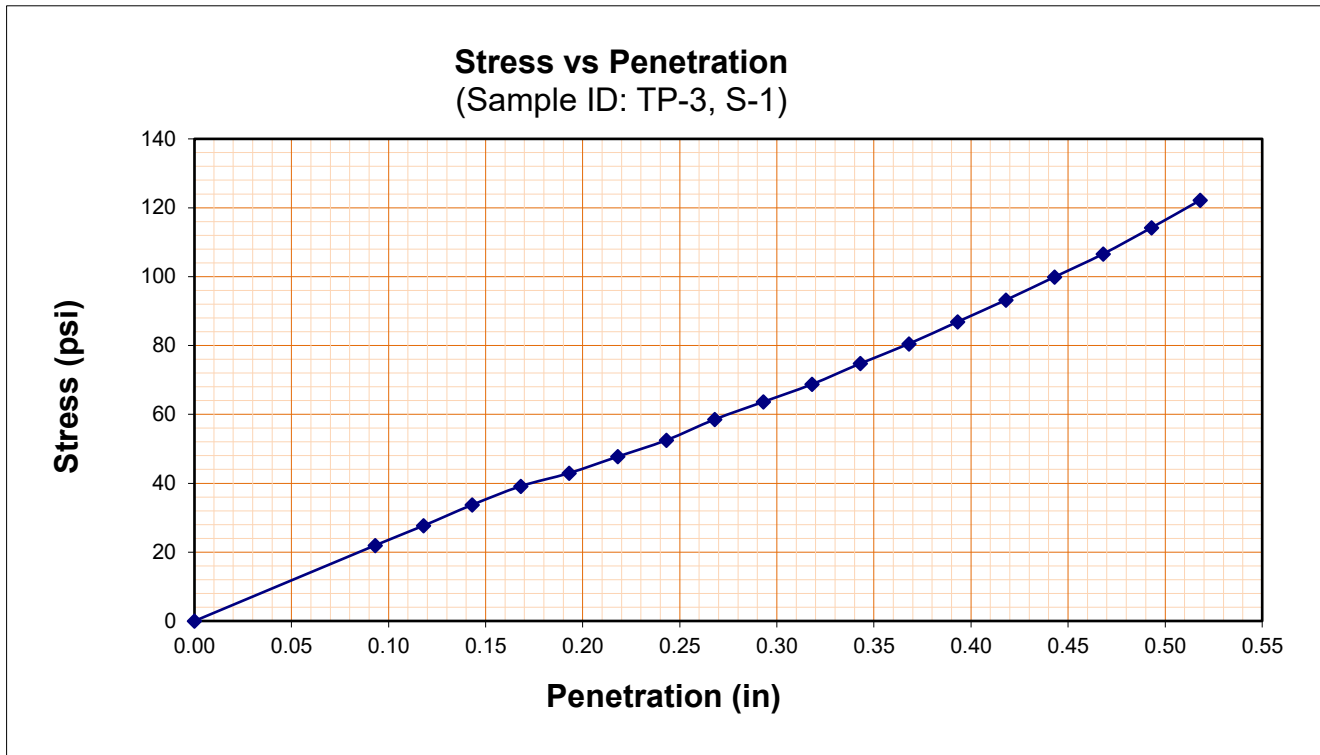
As-Molded Moisture Content (%)	14.4
As-Molded Dry Density (pcf)	108.4
No. of Blows	38
Percent Compaction, ASTM D1557	94.5
Time Soaked (hrs)	96
Swell (%)	2.5
Moisture Content After Soaking (%)	
Top 1"	22.5
Center	17.4
Ring Capacity (lbs.)	6000
Soaked CBR @ 0.1	7.5
Soaked CBR @ 0.2	9.3
Surcharge Weight (lbs.)	10



**Burmister Classification:** Brown Mottled SILT, little CLAY, trace mf GRAVEL, trace mf SAND

**Sample Depth:** 2' – 4'

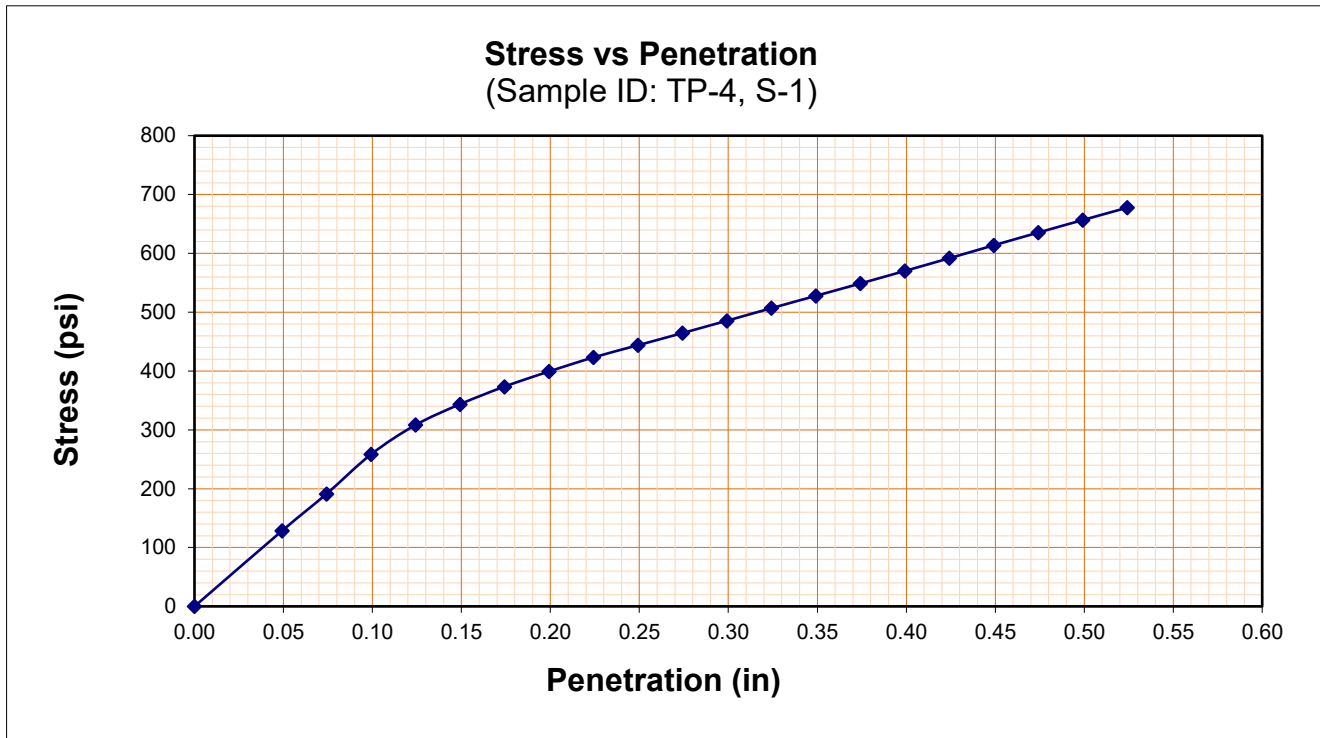
As-Molded Moisture Content (%)	14.2
As-Molded Dry Density (pcf)	106.9
No. of Blows	35
Percent Compaction, ASTM D1557	92.5
Time Soaked (hrs)	96
Swell (%)	2.8
Moisture Content After Soaking (%)	
Top 1"	22.4
Center	18.6
Ring Capacity (lbs.)	6000
Soaked CBR @ 0.1	7.2
Soaked CBR @ 0.2	8.3
Surcharge Weight (lbs.)	10



**Burmister Classification:** Brown/Grey SILT, some cmf SAND, some cmf GRAVEL, little COBBLES  
**Sample Depth:** 2' – 4'

As-Molded Moisture Content (%)	6.9
As-Molded Dry Density (pcf)	123.9
No. of Blows	37
Percent Compaction, ASTM D1557	89.2
Time Soaked (hrs)	96
Swell (%)	2.6
Moisture Content After Soaking (%)	
Top 1"	15.1
Center	11.4
Ring Capacity (lbs.)	6000
Soaked CBR @ 0.1	2.4
Soaked CBR @ 0.2	2.9
Surcharge Weight (lbs.)	10

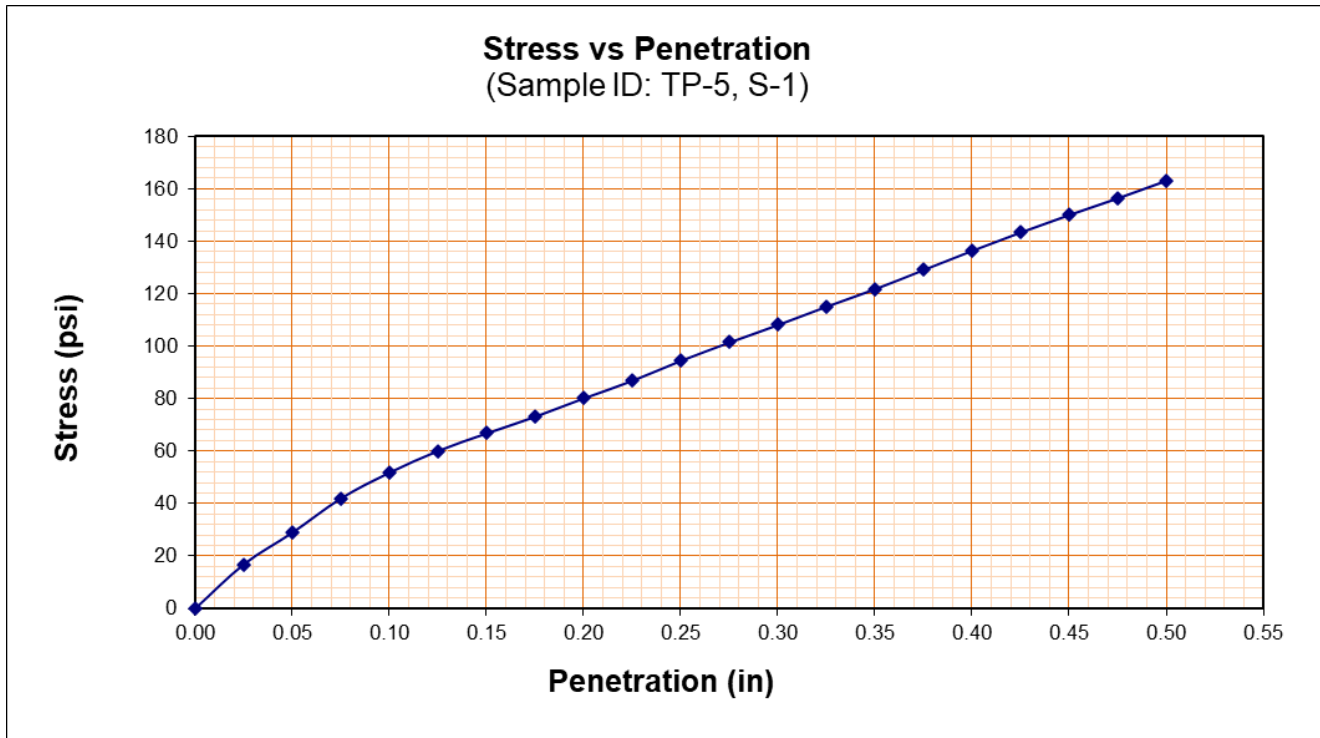




**Burmister Classification:** Brown SILT and cmf SAND, little cmf GRAVEL, trace COBBLES

**Sample Depth:** 2' – 4'

As-Molded Moisture Content (%)	10.3
As-Molded Dry Density (pcf)	118.1
No. of Blows	35
Percent Compaction, ASTM D1557	93.7
Time Soaked (hrs)	96
Swell (%)	1.0
Moisture Content After Soaking (%)	
Top 1"	15.5
Center	12.7
Ring Capacity (lbs.)	6000
Soaked CBR @ 0.1	25.8
Soaked CBR @ 0.2	26.6
Surcharge Weight (lbs.)	10



**Burmister Classification:** Brown SILT, some cmf SAND, little cmf GRAVEL

**Sample Depth:** 2.5' – 4'

As-Molded Moisture Content (%)	10.3
As-Molded Dry Density (pcf)	116.4
No. of Blows	35
Percent Compaction, ASTM D1557	94.2
Time Soaked (hrs)	96
Swell (%)	3.1
Moisture Content After Soaking (%)	
Top 1"	19.4
Center	14.3
Ring Capacity (lbs.)	6000
Soaked CBR @ 0.1	5.2
Soaked CBR @ 0.2	5.3
Surcharge Weight (lbs.)	10

If you have any questions regarding this report please contact our office.

Anas N. Anasthas  
for

Hannah Kloiber  
Laboratory Supervisor

Attachments:

- Rock Core Photographs (2 of 2)
- Soil Test Evaluation for Ductile Iron Pipe; 10-Point System (1 of 1)

CME Report No.: 28062L-03-1123

Rock Core Photographs

Page 1 of 2



B-292; R-1 Before Compression (18.6'-19.1')



B-292; R-1 After Compression (18.6'-19.1')



B-300; R-1 Before Compression (29.3'-29.7')



B-300; R-1 After Compression (29.3'-29.7')

CME Report No.: 28062L-03-1123

Rock Core Photographs

Page 2 of 2



B-400; R-1 Before Compression (9.3'-9.7')



B-400; R-1 After Compression (9.3'-9.7')



## Soil Test Evaluation for Ductile Iron Pipe

(10-Point System)\*

<i>Soil Characteristics</i>	<i>Points</i>		
<b>Resistivity (ohm-cm)**</b>		<b>Moisture</b>	
<1,500	10	Poor drainage,	
≥1,500-1,800	8	continuously wet	2
>1,800-2,100	5	Fair drainage,	
>2,100-2,500	2	generally moist	1
>2,500-3,000	1	Good drainage,	
>3,000	0	generally dry	0
<b>pH</b>			
0-2	5		
2-4	3		
4-6.5	0		
6.5-7.5	0***		
7.5-8.5	0		
>8.5	3		
<b>Redox potential</b>			
>+100mv	0		
+50 to +100mv	3.5		
0 to +50mv	4		
Negative	5		
<b>Sulfides</b>			
Positive	3.5		
Trace	2		
Negative	0		

\*Ten points-corrosive to Ductile Iron Pipe. Protection is indicated.

\*\*Based on water-saturated soil box. This method is designed to obtain the lowest- and most accurate-resistivity reading.

\*\*\*If sulfides are present; and low (<100mv) or negative redox-potential results are obtained, 3 points should be given for this range.

*Note: DIPRA recommends that the soils sample used in the 10-point evaluation to be taken at pipe depth rather than at the surface. Soil corrosivity readings can vary substantially from the surface to pipe depth.*



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**SOIL SCIENCE**  
**SPECIALTY FOUNDATION DESIGN**

*The groundwork for success.*

Project:	Micron Campus	File Number:	2328700
Location:	Clay, NY	Date:	7-Dec-23
Client:	CME Associates, Inc.	CMT I. D. No.:	18436

**Summary of Test Results - Potentially Expansive Rock Testing**

Date Received: 30-Nov-23

Date Tested: 5-Dec-23

Sample Location: B-30, R-1, 7.0'-7.5'

Test	Test Method	Result
Neutralization Potential (%CaCO <sub>3</sub> )	DEP OB Man	83.50%
Total Sulfur	PA DEP OM p54	0.56%
Sulfate Sulfur	PA DEP OM p54	0.02%
Pyritic Sulfur	PA DEP OM p54	0.50%
Organic Sulfur	PA DEP OM p54	0.04%

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Project:	Micron Campus	File Number:	2328700
Location:	Clay, NY	Date:	7-Dec-23
Client:	CME Associates, Inc.	CMT I. D. No.:	18437

**Summary of Test Results - Potentially Expansive Rock Testing**

Date Received: 30-Nov-23

Date Tested: 5-Dec-23

Sample Location: B-35, R-1, 4.0'-4.5'

Test	Test Method	Result
Neutralization Potential (%CaCO <sub>3</sub> )	DEP OB Man	97.60%
Total Sulfur	PA DEP OM p54	0.02%
Sulfate Sulfur	PA DEP OM p54	0.01%
Pyritic Sulfur	PA DEP OM p54	<0.01%
Organic Sulfur	PA DEP OM p54	0.01%

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**SOIL SCIENCE**

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Project:	Micron Campus	File Number:	2328700
Location:	Clay, NY	Date:	7-Dec-23
Client:	CME Associates, Inc.	CMT I. D. No.:	18438

### Summary of Test Results - Potentially Expansive Rock Testing

Date Received: 30-Nov-23

Date Tested: 5-Dec-23

Sample Location: B-400, R-1, 8.8'-9.2'

Test	Test Method	Result
Neutralization Potential (%CaCO <sub>3</sub> )	DEP OB Man	98.70%
Total Sulfur	PA DEP OM p54	0.09%
Sulfate Sulfur	PA DEP OM p54	0.01%
Pyritic Sulfur	PA DEP OM p54	0.06%
Organic Sulfur	PA DEP OM p54	0.02%

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November 20, 2023

Project No. 2023-294-003

Ms. Hannah Kloiber  
CME Associates, Inc.  
6035 Corporate Drive  
East Syracuse, NY 13057

**Transmittal**  
**Laboratory Test Results**  
**Micron 28062**

Please find attached the laboratory test results for the above referenced project. The tests were outlined on the Project Verification Form that was transmitted to your firm prior to the testing. The testing was performed in general accordance with the methods listed on the enclosed data sheets. The test results are believed to be representative of the samples that were submitted for testing and are indicative only of the specimens that were evaluated. We have no direct knowledge of the origin of the samples and imply no position with regard to the nature of the test results, i.e. pass/fail and no claims as to the suitability of the material for its intended use.

The test data and all associated project information provided shall be held in strict confidence and disclosed to other parties only with authorization by our Client. The test data submitted herein is considered integral with this report and is not to be reproduced except in whole and only with the authorization of the Client and Geotechnics. The remaining sample materials for this project will be retained for a minimum of 90 days as directed by the Geotechnics' Quality Program.

We are pleased to provide these testing services. Should you have any questions or if we may be of further assistance, please contact our office.

Respectfully submitted,  
**Geotechnics, Inc.**

Nathan Melaro  
Director of Operations

***We understand that you have a choice in your laboratory services  
and we thank you for choosing Geotechnics.***

**CHLORIDE ION CONTENT IN SOILS**

AASHTO T 291 - 94 (2018) (Method B)

Client: CME Associates, Inc.  
 Client Reference: Micron 28062  
 Project No.: 2023-294-003  
 Lab ID: 2023-294-003-001

Boring No.: Ramboll  
 Depth (ft): NA  
 Sample No.: TP-1  
 Description: Brown Soil  
 (- # 10 Sieve material)

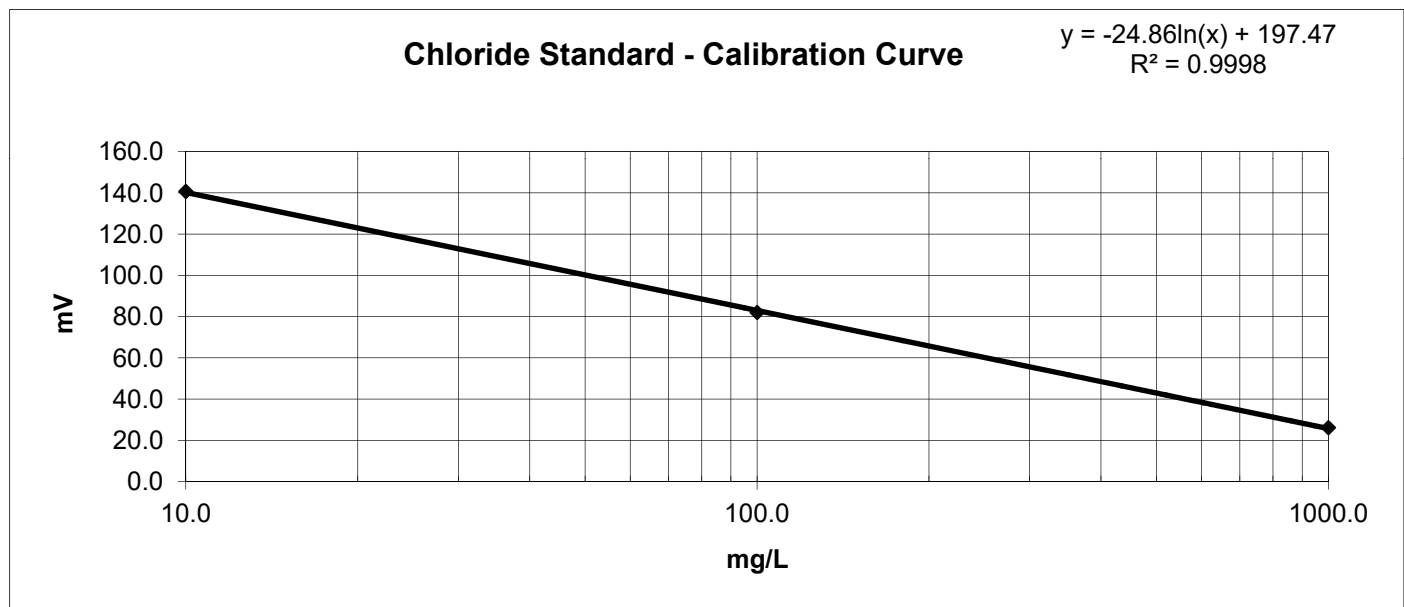
**CHLORIDE STANDARD: CALIBRATION CURVE**

STANDARD		MILLIVOLTS (mV)
10.0	mg/L	140.7
100.0	mg/L	82.0
1000.0	mg/L	26.2

**MEASUREMENT OF CHLORIDES**

Sample Weight (g):	<u>100.0</u>	CONCENTRATION	CONCENTRATION
Water added to Sample (ml):	<u>100.0</u>	(mg/L)	(mg/kg)
Size of Sample Aliquot (ml):	<u>25.0</u>		
Sample Reading (mV):	<u>150.1</u>	6.72	6.72

- Notes: 1) Samples and standards were buffered by the addition of an equal volume of the 0.2 M KNO<sub>3</sub> solution (1:1 volume).  
 2) Samples were dried for a minimum of 12 hours at 110 °F, 5°C.



Notes:

Tested By JAM Date 11/17/23 Checked By NJM Date 11/17/23



## Water-Soluble Sulfate Ion Content in Soil AASHTO T 290-95 (2020)

Client:	CME Associates, Inc.	Boring No.:	Ramboll
Client Reference:	Micron 28062	Depth (ft):	NA
Project No.:	2023-294-003	Sample No.:	TP-1
Lab ID:	2023-294-003-001	Soil Description:	Brown Soil

### Sulfate Standard - Calibration Curve Spectrophotometer Readings

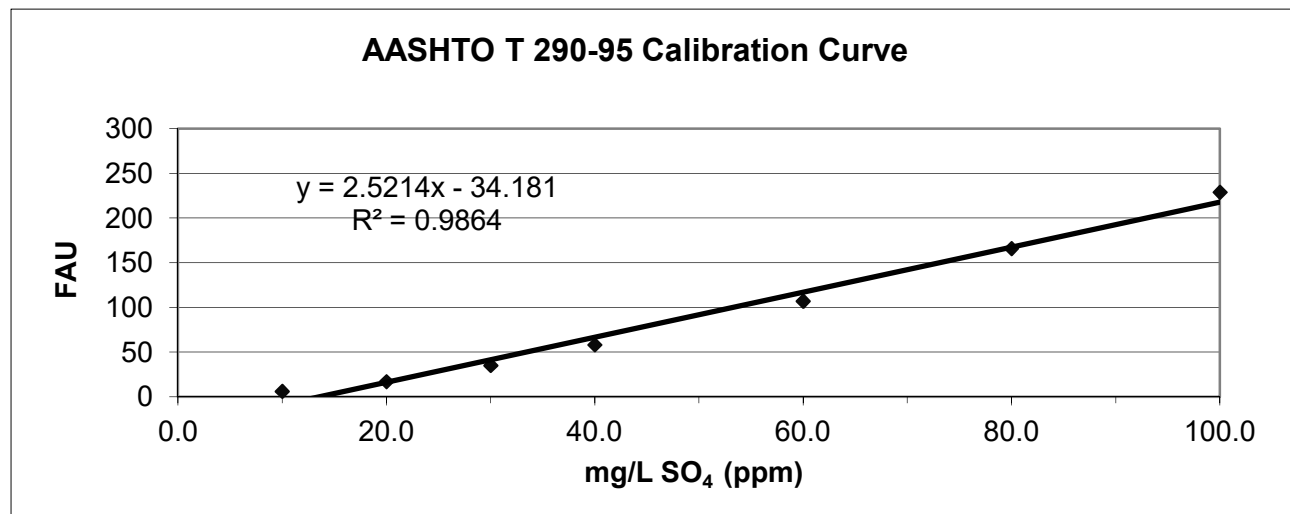
<u>Sulfate Ion Concentrations (mg/L)</u>									
0.0	4.0	10.0	20.0	30.0	40.0	60.0	80.0	100.0	
<u>Spectrophotometer Readings (FAU)</u>									
Underrange	Underrange	6	17	35	58	107	166	229	

### Measurement of Barium Chloride Turbidity

(Sample contains 5.0 mL NaCl solution and 0.3 g BaCl<sub>2</sub>·2H<sub>2</sub>O)

<p><b>Sample Weight (g):</b> 100.0</p> <p><b>Water added to Sample (mL):</b> 300.0</p> <p><b>Size of Sample Aliquot (mL):</b> 50.0</p> <p><b>Sample Reading (FAU):</b> 47</p> <p><b>Sample Diluted:</b> No</p> <p><b>Sulfate Solution Added (ml):</b> 0</p>	<p><u><b>Sample Moisture Content</b></u></p> <p>Tare Number: 872</p> <p>Weight of Tare &amp; Wet Sample (g): 270.09</p> <p>Weight of Tare &amp; Dry Sample (g): 261.19</p> <p>Weight of Tare (g): 109.88</p> <p>Weight of Water (g): 8.90</p> <p>Weight of Dry Sample (g): 151.31</p> <p>Moisture Content (%): 5.88</p>
---	---

<b>Sample Sulfate Ion Concentration:</b>	32.20	<b>mg/L SO<sub>4</sub> (ppm)</b>
<b>Sample Sulfate Ion Content:</b>	96.6	<b>mg/Kg SO<sub>4</sub> (not corrected for moisture)</b>
<b>Sample Sulfate Ion Content:</b>	102.6	<b>mg/Kg SO<sub>4</sub> (corrected for moisture)</b>



Tested by: JAM      Date: 11/17/23      Checked by: NJM      Date: 11/17/23



## CHLORIDE ION CONTENT IN SOILS

AASHTO T 291 - 94 (2018) (Method B)

Client: CME Associates, Inc.  
 Client Reference: Micron 28062  
 Project No.: 2023-294-003  
 Lab ID: 2023-294-003-002

Boring No.: Ramboll  
 Depth (ft): NA  
 Sample No.: TP-2  
 Description: Brown Soil

( - # 10 Sieve material )

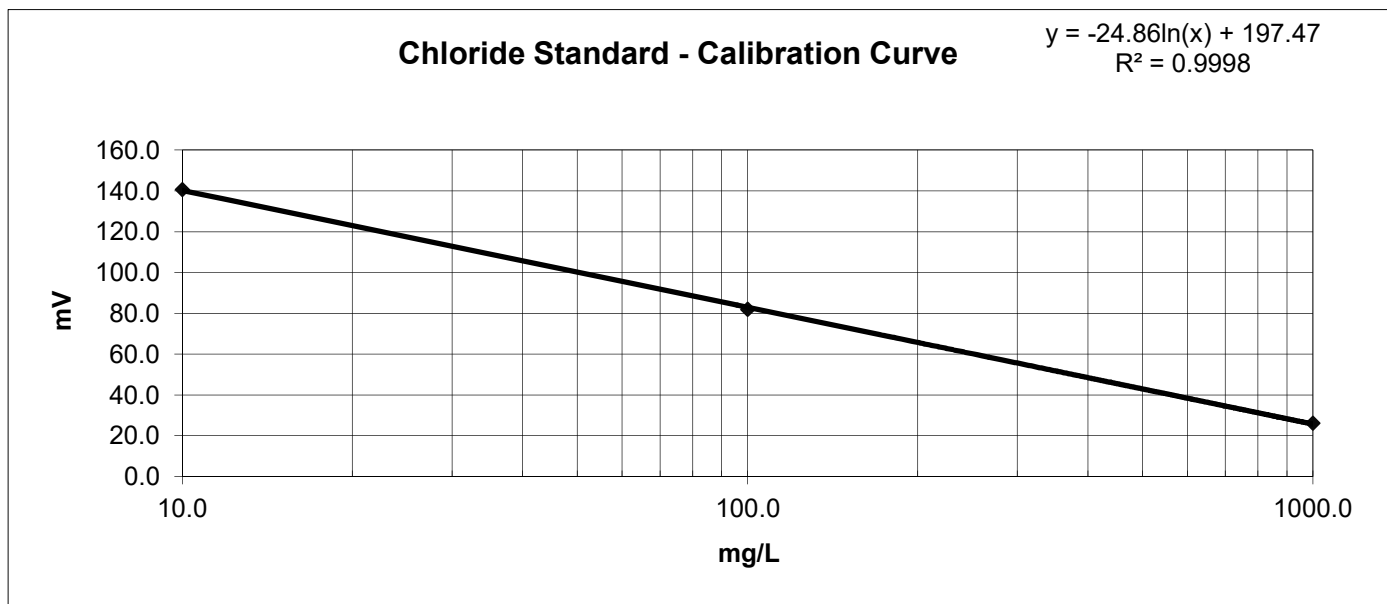
### CHLORIDE STANDARD: CALIBRATION CURVE

STANDARD	MILLIVOLTS (mV)
10.0 mg/L	140.7
100.0 mg/L	82.0
1000.0 mg/L	26.2

### MEASUREMENT OF CHLORIDES

Sample Weight (g):	<u>100.0</u>	CONCENTRATION	CONCENTRATION
Water added to Sample (ml):	<u>100.0</u>	(mg/L)	(mg/kg)
Size of Sample Aliquot (ml):	<u>25.0</u>		
Sample Reading (mV):	<u>162.3</u>	4.11	4.11

Notes: 1) Samples and standards were buffered by the addition of an equal volume of the 0.2 M KNO<sub>3</sub> solution (1:1 volume).  
 2) Samples were dried for a minimum of 12 hours at 110 ± 5°C.



Notes:

Tested By JAM

Date 11/17/23

Checked By NJM

Date 11/17/23



## Water-Soluble Sulfate Ion Content in Soil AASHTO T 290-95 (2020)

Client:	CME Associates, Inc.	Boring No.:	Ramboll
Client Reference:	Micron 28062	Depth (ft):	NA
Project No.:	2023-294-003	Sample No.:	TP-2
Lab ID:	2023-294-003-002	Soil Description:	Brown Soil

### Sulfate Standard - Calibration Curve Spectrophotometer Readings

<u>Sulfate Ion Concentrations (mg/L)</u>									
0.0	4.0	10.0	20.0	30.0	40.0	60.0	80.0	100.0	
<u>Spectrophotometer Readings (FAU)</u>									
Underrange	Underrange	6	17	35	58	107	166	229	

### Measurement of Barium Chloride Turbidity

(Sample contains 5.0 mL NaCl solution and 0.3 g BaCl<sub>2</sub>·2H<sub>2</sub>O)

**Sample Weight (g):** 100.0  
**Water added to Sample (mL):** 300.0  
**Size of Sample Aliquot (mL):** 50.0  
**Sample Reading (FAU):** 8

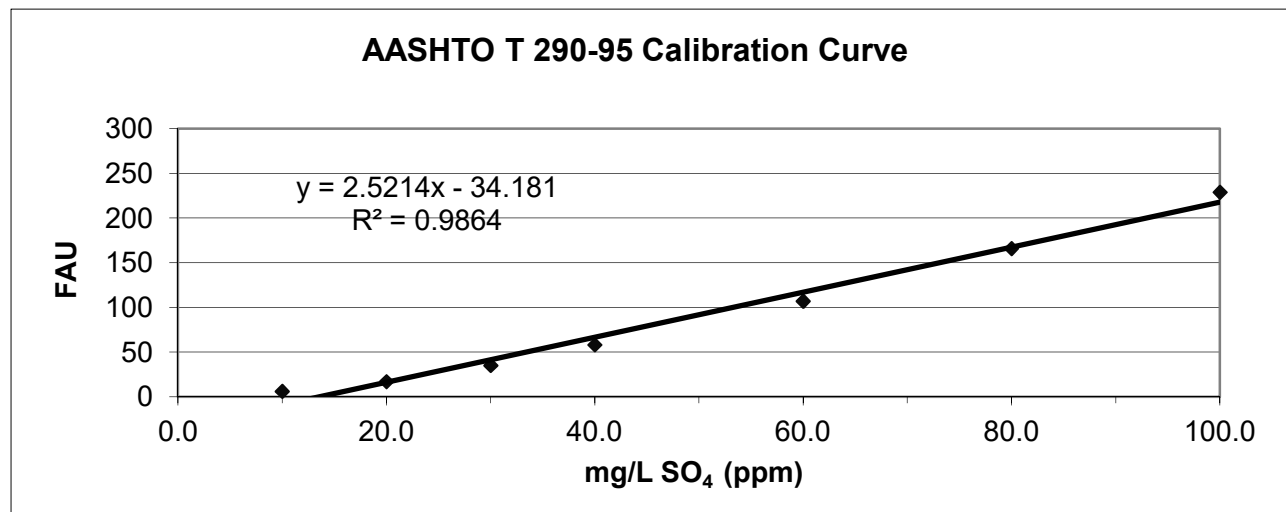
**Sample Diluted:** No

**Sulfate Solution Added (ml):** 0

### Sample Moisture Content

**Tare Number:** 1717  
**Weight of Tare & Wet Sample (g):** 227.88  
**Weight of Tare & Dry Sample (g):** 222.91  
**Weight of Tare (g):** 82.60  
**Weight of Water (g):** 4.97  
**Weight of Dry Sample (g):** 140.31  
**Moisture Content (%):** 3.54

<b>Sample Sulfate Ion Concentration:</b>	16.73	<b>mg/L SO<sub>4</sub> (ppm)</b>
<b>Sample Sulfate Ion Content:</b>	50.2	<b>mg/Kg SO<sub>4</sub> (not corrected for moisture)</b>
<b>Sample Sulfate Ion Content:</b>	52.0	<b>mg/Kg SO<sub>4</sub> (corrected for moisture)</b>



Tested by: JAM      Date: 11/17/23      Checked by: NJM      Date: 11/17/23

page 1 of 1    DCN: CT-S87    DATE: 3/5/2020    REVISION: 1



6035 Corporate Drive  
 East Syracuse, NY 13057  
 Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-13</b>
<b>Page No.</b>	1 of 2
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	09/06/23
<b>Date Finished</b>	09/06/23
<b>Surface Elev.</b>	391.1'

<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	B. Fletcher	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	Chris O'Hara	<b>Casing Hammer:</b>		09/06/23	While Drilling	8.2	18.5
<b>Inspector:</b>	Asitwa Sharma, EIT	<b>Other:</b>	NQ-Core	09/06/23	Before Casing Removed	9.0	23.8
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	2" OD Split Barrel	09/06/23	After Casing Removed	5.1 *	out
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	09/06/23	After Casing Removed	caved @ 5.5	out
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1	0.0	2.0	SS/20	1-2-3-5		Brown mottled SILT, trace fine SAND, trace CLAY, trace ROOTS (moist, medium stiff)		5
1									
2	2	2.0	4.0	SS/19	5-5-4-3		Brown mottled SILT, trace fine SAND, trace CLAY (wet, stiff)		9
3									
4	3	4.0	6.0	SS/16	2-3-5-6		Similar as above (wet, stiff)		8
5									
6	4	6.0	8.0	SS/15	6-7-6-7		Similar as above (wet, stiff)		13
7									
8	5	8.0	10.0	SS/12	4-5-7-6		Brown SILT, trace fine SAND, trace fine GRAVEL, trace CLAY (wet, stiff)		12
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/12	3-2-4		Grey SILT, trace CLAY, trace fine SAND (wet, medium stiff)		6
15									
16									
17									
18									
19	7	18.5	20.0	SS/10	13-5-6		Augered hard from 18.0' Grey mf GRAVEL and cmf SAND, little SILT, little CLAY (wet, medium compact)		11
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** \*Water added to borehole during coring process.



**CME**  
Associates, Inc.

6035 Corporate Drive  
East Syracuse, NY 13057  
Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-13</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20							Continued from Page 1		
21									
22									
23	8	23.5	23.6	SS/1	100@1"		Grey ROCK chips and fragments (wet)		100+
24	R-1	23.8	28.8	C/60	NQ-Core		<u>Auger refusal @ 23.8'</u> 23.8' to 26.0': Dark Grey interbedded SHALE and DOLOSTONE, slightly weathered, laminated to medium bedded, medium hard. 26.0' to 28.8': Dark Grey DOLOSTONE with interbedded SHALE (1/8" to 1/4" layers), slightly weathered, thinly to medium bedded, hard. <i>Horizontal fractures at 26.0', 27.1' and 28.3'.</i> Recovery: 60"/60" = 100%   RQD = 40"/60" = 67% 12 pieces, 2" Chips and fragments <i>1:30 min/ft, no water loss</i> <i>Coring conducted in 5th gear, 2000 rpm, 500 psi down pressure.</i>		67%
25									
26									
27									
28									
29							Bottom of Boring @ 28.8'		
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

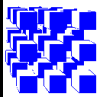
**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-15	<b>Page No.</b> 1 of 2	
<b>Project Name:</b> Micron Campus, Clay, New York							<b>Report No.</b> 28062B-03-1223	<b>Date Started</b> 09/05/23	
<b>Client:</b> Ramboll							<b>Date Finished</b> 09/05/23	<b>Surface Elev.</b> 394.0'	
<b>Location:</b> See Exploration Location Plan									
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> Chris O'Hara		<b>Casing Hammer:</b>		09/05/23	While Drilling	None Noted	18.5		
<b>Inspector:</b> Asitwa Sharma, EIT		<b>Other:</b> NQ-Core		09/05/23	Before Casing Removed	2.7 *	23.8		
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		09/05/23	After Casing Removed	5.0 *	out		
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		09/05/23	After Casing Removed	caved @ 27.2	out		
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse m - medium f - fine</b>	<b>and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1	0.0	2.0	SS/24	1-2-3-4		Grey/Brown SILT, little mf SAND, little CLAY, trace ROOTS (moist, medium stiff)	5	
1									
2	2	2.0	4.0	SS/15	4-4-5-5		Brown mottled SILT, trace fine SAND, trace CLAY (wet, stiff)	9	
3									
4	3	4.0	6.0	SS/17	5-5-7-9		Brown SILT, little CLAY, trace fine SAND (wet, stiff)	12	
5									
6	4	6.0	8.0	SS/14	5-9-8-9		Brown SILT, little CLAY, trace fine SAND, trace fine GRAVEL (wet, very stiff)	17	
7									
8	5	8.0	10.0	SS/15	6-8-11-14		Brown SILT, little cmf SAND, trace fine GRAVEL (wet, very stiff)	19	
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/9	2-3-2		Grey SILT, some CLAY, little fine SAND (wet, medium stiff)	5	
15									
16									
17									
18									
19	7	18.5	20.0	SS/18	1-1-1		Grey/Brown CLAY, some SILT, little fine GRAVEL, trace cmf SAND (wet, soft)	2	
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** \* Water added for coring.





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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-15</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20							Continued from Page 1		
21									
22									
23	8	23.5	23.5	SS/0	100@0"		<i>No Recovery. See Remark 1</i>		100+
24	R-1	23.8	28.8	C/60	NQ-Core		<i>Auger refusal @ 23.8'</i>		
25							Dark Grey/Black SHALE with interbedded DOLOSTONE, slightly weathered, thinly bedded, medium hard.		87%
26							Broken zone @ 24.1' to 24.5'. Recovery: 60"/60" = 100%   RQD = 52"/60" = 87%		
27							15 pieces, 2" Chips and fragments 1:45 min/ft, no water loss		
28							<i>Coring conducted in 5th gear, 2000 rpm, 500 psi down pressure.</i>		
29	R-2	28.8	33.8	C/60	NQ-Core		Dark Grey/Black DOLOSTONE with interbedded SHALE, slightly weathered, thinly to medium bedded, medium hard.		95%
30							Recovery: 60"/60" = 100%		
31							RQD = 57"/60" = 95%		
32							13 pieces, 1" Chips and fragments		
33							1:32 min/ft, no water loss		
34							<i>Coring conducted in 5th gear, 2000 rpm, 500 psi down pressure.</i>		
35							Bottom of Boring @ 33.8'		
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Grey ROCK chips and fragments on spoon top

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>		<b>B-18</b>							
						<b>Page No.</b>		1 of 2							
						<b>Report No.</b>		28062B-03-1223							
<b>Project Name:</b>		Micron Campus, Clay, New York				<b>Date Started</b>		09/05/23							
<b>Client:</b>		Ramboll				<b>Date Finished</b>		09/05/23							
<b>Location:</b>		See Exploration Location Plan				<b>Surface Elev.</b>		391.9'							
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>										
<b>Driller:</b>		B. Fletcher		<b>Casing:</b>		3 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>	
<b>Driller:</b>		Chris O'Hara		<b>Casing Hammer:</b>				09/05/23		While Drilling		12.7		18.5	
<b>Inspector:</b>		Asitwa Sharma, EIT		<b>Other:</b>				09/05/23		Before Casing Removed		5.7		22	
<b>Drill Rig:</b>		CME 550X		<b>Soil Sampler:</b>		2" OD Split Barrel		09/05/23		After Casing Removed		4.6		out	
<b>Type:</b>		ATV		<b>Hammer Wt:</b>		140 lbs.		09/05/23		After Casing Removed		caved @ 4.8'		out	
<b>Rod Size:</b>		AWJ		<b>Hammer Fall:</b>		30 in.									
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>										
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %				
		From	To				m - medium f - fine								
0	1	0.0	2.0	SS/20	1-2-4-4		Brown SILT, trace fine SAND, trace CLAY, trace ROOTS (moist, medium stiff)			6					
1															
2	2	2.0	4.0	SS/17	5-6-6-8		Brown mottled SILT, trace fine SAND, trace CLAY (moist, stiff)			12					
3															
4	3	4.0	6.0	SS/18	5-5-5-5		Similar as above (wet, stiff)			10					
5															
6	4	6.0	8.0	SS/15	6-5-7-9		Similar as above (wet, stiff)			12					
7															
8	5	8.0	10.0	SS/20	5-6-7-7		Similar as above (wet, stiff)			13					
9															
10															
11															
12															
13															
14	6	13.5	15.0	SS/11	2-3-4		Grey SILT, little CLAY, trace fine SAND, (wet, medium stiff)			7					
15															
16															
17							<i>Augered gravelly @ 16.5'</i>								
18															
19	7	18.5	20.0	SS/10	5-7-8		Grey cmf SAND, some fine GRAVEL, little SILT (wet, medium compact)			15					
20							Continued on Page 2								

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-18</b>
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<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20	8	22.0	22.0	SS/0	100@0"				Continued from Page 1  <i>Auger refusal @ 22.0'</i> <i>No Recovery. See Remark 1</i> <i>Bottom of Boring @ 22.0'</i>
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Grey ROCK chips and fragments on spoon top

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>		<b>B-19</b>	
						Page No.		1 of 2	
						Report No.		28062B-03-1223	
<b>Project Name:</b>		Micron Campus, Clay, New York				<b>Date Started</b>		09/06/23	
<b>Client:</b>		Ramboll				<b>Date Finished</b>		09/06/23	
<b>Location:</b>		See Exploration Location Plan				<b>Surface Elev.</b>		391.8'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>		B. Fletcher		<b>Casing:</b>		3 1/4" ID H.S.A.		<b>Date</b>	
<b>Driller:</b>		Chris O'Hara		<b>Casing Hammer:</b>				<b>Time</b>	
<b>Inspector:</b>		Asitwa Sharma, EIT		<b>Other:</b>				<b>Depth (Ft.)</b>	
<b>Drill Rig:</b>		CME 550X		<b>Soil Sampler:</b>		2" OD Split Barrel		<b>Casing At (Ft.)</b>	
<b>Type:</b>		ATV		<b>Hammer Wt:</b>		140 lbs.		09/06/23	
<b>Rod Size:</b>		AWJ		<b>Hammer Fall:</b>		30 in.		While Drilling	
								None Noted	
								8.5	
								10.3	
								caved @ 22.1	
								out	
								out	
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/13	1-4-4-6		Brown SILT, trace mf SAND, trace CLAY, trace ROOTS (moist, stiff)	8	
1									
2	2	2.0	4.0	SS/21	4-5-5-5		Brown mottled SILT, trace mf SAND, trace CLAY (moist, stiff)	10	
3									
4	3	4.0	6.0	SS/20	4-3-4-3		Brown SILT, trace fine SAND, trace CLAY (wet, medium stiff)	7	
5									
6	4	6.0	8.0	SS/15	3-4-4-5		Similar as above (wet, stiff)	8	
7									
8	5	8.0	10.0	SS/22	4-5-6-7		Similar as above (wet, stiff)	11	
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/16	7-10-12		Similar as above (wet, very stiff)	22	
15									
16									
17									
18									
19	7	18.5	20.0	SS/5	3-4-2		Grey cmf SAND and mf GRAVEL, little SILT, trace CLAY (wet, loose)	6	
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-19</b>
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<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20							Continued from Page 1		
21							<i>Augered gravelly @ 21.0'</i>		
22									
23	8	23.5	24.8	SS/5	13-23-100@3"		Dark Grey ROCK fragments, trace SILT (moist)		100+
24							<i>Auger refusal @ 24.8'</i>		
25							Bottom of Boring @ 24.8'		
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-30	<b>Page No.</b> 1 of 1	
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll		<b>Location:</b> See Exploration Location Plan		<b>Report No.</b> 28062B-03-1223	<b>Date Started</b> 09/07/23	<b>Date Finished</b> 09/07/23	<b>Surface Elev.</b> 392.3'
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher <b>Driller:</b> Chris O'Hara <b>Inspector:</b> Asitwa Sharma, EIT <b>Drill Rig:</b> CME 550X <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> NQ-Core <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				09/07/23	While Drilling	2.8	4.0		
				09/07/23	Before Casing Removed	3.9 *	7		
				09/07/23	After Casing Removed	3.0 *	out		
				09/07/23	After Casing Removed	caved @ 7.8	out		
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	<b>SPT "N" or RQD %</b>
0	1A	0.0	1.0	SS/24	1-1-4-6		Topsoil and Organic Matter (moist)		5
1	1B	1.0	2.0				Brown SILT, trace fine SAND (moist, medium stiff)		
2	2	2.0	4.0	SS/14	5-3-3-4		Brown SILT, some cmf SAND, little fine GRAVEL (moist, medium stiff)		6
3									
4	3	4.0	6.0	SS/13	3-5-7-10		Similar as above (wet, stiff)		12
5									
6	4	6.0	6.9	SS/11	34-100@5"		Dark Grey cmf SAND and cmf GRAVEL, trace SILT, some ROCK fragments (wet, very compact) Auger refusal @ 7.0'		100+
7	R1	7.0	12.0	C/60	NQ-Core		Dark Grey/Black SHALE with interbedded DOLOSTONE (1/4" to 2" layers), moderately weathered, laminated to thinly bedded, medium soft to medium hard.		20%
8							Weathered and broken zones throughout core run.		
9							Recovery: 60"/60" = 100%   RQD = 12"/60" = 20%		
10							21 pieces, 7 " Chips and fragments		
11							1:45 min/ft, no water loss		
12							Coring conducted in 5th gear, 2000 rpm, 500 psi down pressure.		
13							Bottom of Boring @ 12.0'		
14									
15									
16									
17									
18									
19									
20									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** \* Water added for coring.

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-31	<b>Page No.</b> 1 of 1	
<b>Project Name:</b> Micron Campus, Clay, New York							<b>Report No.</b> 28062B-03-1223	<b>Date Started</b> 09/08/23	
<b>Client:</b> Ramboll							<b>Date Finished</b> 09/08/23	<b>Surface Elev.</b> 394.8'	
<b>Location:</b> See Exploration Location Plan									
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> Chris O'Hara		<b>Casing Hammer:</b>		09/08/23	While Drilling	None Noted	4.0		
<b>Inspector:</b> Asitwa Sharma, EIT		<b>Other:</b>		09/08/23	Before Casing Removed	None Noted	5.8		
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		09/08/23	After Casing Removed	None Noted	out		
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		09/08/23	After Casing Removed	caved @ 2.5	out		
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse m - medium f - fine</b>	<b>and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1	0.0	2.0	SS/14	1-1-3-4		Brown SILT, little cmf SAND, trace mf GRAVEL, trace ROOTS (moist, medium stiff)	4	
1									
2	2	2.0	4.0	SS/20	4-3-3-4		Brown mottled SILT, little cmf SAND, trace fine GRAVEL (wet, medium stiff)	6	
3									
4	3	4.0	5.8	SS/16	3-3-3-100@4"		Brown SILT, some cmf SAND, some mf GRAVEL, some ROCK fragments (wet, medium stiff)	6	
5							<i>Auger refusal @ 5.8'</i>		
6							Bottom of Boring @ 5.8'		
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod


**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-32	<b>Page No.</b> 1 of 1		
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll		<b>Location:</b> See Exploration Location Plan		<b>Report No.</b> 28062B-03-1223	<b>Date Started</b> 09/07/23	<b>Date Finished</b> 09/07/23	<b>Surface Elev.</b> 392.3'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b> B. Fletcher <b>Driller:</b> Chris O'Hara <b>Inspector:</b> Asitwa Sharma, EIT <b>Drill Rig:</b> CME 550X <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>			
				09/07/23	While Drilling	3.6	4.0			
				09/07/23	Before Casing Removed	3.7	5.7			
				09/07/23	After Casing Removed	4.2	out			
				09/07/23	After Casing Removed	caved @ 4.3	out			
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse m - medium f - fine</b>		<b>and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1	0.0	2.0	SS/14	1-2-3-3		Brown mottled SILT, trace cmf SAND, trace fine GRAVEL, trace ROOTS (moist, medium stiff)		5	
1										
2	2	2.0	4.0	SS/13	1-4-7-7		Grey/Brown SILT and cmf SAND, little cmf GRAVEL (wet, stiff)		11	
3										
4	3	4.0	5.6	SS/11	17-21-10-100@1"		Dark Grey ROCK fragments, trace SILT, trace cmf SAND (wet)		31	
5							<i>Auger refusal @ 5.7'</i>			
6							Bottom of Boring @ 5.7'			
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod


**Remarks:**



 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>		<b>B-33</b>	
						Page No.		1 of 1	
						Report No.		28062B-03-1223	
<b>Project Name:</b>		Micron Campus, Clay, New York				<b>Date Started</b>		09/08/23	
<b>Client:</b>		Ramboll				<b>Date Finished</b>		09/08/23	
<b>Location:</b>		See Exploration Location Plan				<b>Surface Elev.</b>		395.8'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>		B. Fletcher		<b>Casing:</b>		3 1/4" ID H.S.A.		<b>Date</b>	
<b>Driller:</b>		Chris O'Hara		<b>Casing Hammer:</b>				<b>Time</b>	
<b>Inspector:</b>		Asitwa Sharma, EIT		<b>Other:</b>				<b>Depth (Ft.)</b>	
<b>Drill Rig:</b>		CME 550X		<b>Soil Sampler:</b>		2" OD Split Barrel		<b>Casing At (Ft.)</b>	
<b>Type:</b>		ATV		<b>Hammer Wt:</b>		140 lbs.		09/08/23	
<b>Rod Size:</b>		AWJ		<b>Hammer Fall:</b>		30 in.		While Drilling	
								None Noted	
								11.0	
								7	
								caved @ 8.0	
								out	
								out	
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/20	1-1-1-2		Brown SILT, little cmf SAND, trace ROOTS (moist, soft)	2	
1									
2	2	2.0	4.0	SS/18	2-4-5-7		Brown SILT, trace fine SAND, trace CLAY (wet, stiff)	9	
3									
4	3	4.0	6.0	SS/13	5-6-5-4		Similar as above (wet, stiff)	11	
5									
6	4	6.0	8.0	SS/12	2-3-4-3		Grey/Brown SILT, trace fine SAND, trace mf GRAVEL (wet, medium stiff)	7	
7									
8	5	8.0	10.0	SS/10	2-2-1-2		Grey/Brown SILT, some cmf SAND, some fine GRAVEL, trace CLAY (wet, soft)	3	
9									
10									
11	6	11.8	11.8	SS/0	100@0"		Auger refusal @ 11.8' Grey ROCK chips and fragments	100+	
12							Bottom of Boring @ 11.8'		
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-34 <b>Page No.</b> 1 of 1 <b>Report No.</b> 28062B-03-1223				
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 09/07/23							
<b>Client:</b> Ramboll		<b>Date Finished:</b> 09/07/23							
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 394.2'							
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b>	B. Fletcher	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b>	Chris O'Hara	<b>Casing Hammer:</b>		09/07/23	While Drilling	None Noted	4.0		
<b>Inspector:</b>	Asitwa Sharma, EIT	<b>Other:</b>		09/07/23	Before Casing Removed	6.5	9.3		
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	2" OD Split Barrel	09/07/23	After Casing Removed	6.7	out		
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	09/07/23	After Casing Removed	caved @ 9.0	out		
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.						
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/18	1-2-2-3		Brown SILT, trace fine SAND, trace ROOTS (moist, medium stiff)		4
1									
2	2	2.0	4.0	SS/19	3-2-2-2		Dark Grey/Brown SILT, little cmf SAND, trace CLAY (moist, medium stiff)		4
3									
4	3	4.0	6.0	SS/13	3-2-2-2		Dark Grey/Brown SILT, little cmf SAND, trace CLAY, trace fine GRAVEL (wet, medium stiff)		4
5									
6	4	6.0	8.0	SS/9	3-2-1-1		Dark Grey SILT, some cmf SAND, little mf GRAVEL, trace CLAY (wet, soft)		3
7									
8	5	8.0	8.8	SS/8	5-100@3"		Dark Grey SILT and ROCK fragments, trace mf GRAVEL, trace cmf SAND (wet, hard)		100+
9							<i>Auger refusal @ 9.3'</i>		
10							Bottom of Boring @ 9.3'		
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



6035 Corporate Drive  
 East Syracuse, NY 13057  
 Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-35</b>
<b>Page No.</b>	1 of 1
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	09/07/23
<b>Date Finished</b>	09/07/23
<b>Surface Elev.</b>	397.4'


<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	B. Fletcher	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	Chris O'Hara	<b>Casing Hammer:</b>		09/07/23	While Drilling	None Noted	4.0
<b>Inspector:</b>	Asitwa Sharma, EIT	<b>Other:</b>	NQ-Core	09/07/23	Before Casing Removed	2.4 *	4.0
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	2" OD Split Barrel	09/07/23	After Casing Removed	2.8 *	out
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	09/07/23	After Casing Removed	caved @ 4.0	out
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1	0.0	2.0	SS/6	1-3-3-9		Brown SILT, trace fine SAND, trace fine GRAVEL, trace ROOTS (moist, medium stiff)		6
1									
2	2	2.0	3.7	SS/13	6-5-12-100@2"		Brown mottled SILT, little cmf GRAVEL, little ROCK fragments, trace cmf SAND (wet, very stiff)		17
3									
4	R1	4.0	9.0	C60	NQ-Core		<i>Auger refusal @ 4.0'</i> Dark Grey DOLOSTONE with interbedded SHALE (1/8" to 1 1/4"), weathered, thinly to medium bedded, medium hard. Weathered SHALE and SILT layers @ 4.4' to 4.5', 5.1' to 5.2', 6.8' to 6.9' and 8.1' to 8.3'. Recovery: 60"/60" = 100%   RQD = 39"/50" = 65% 17 pieces, 5" Chips and fragments <i>1:05 min/ft, no water loss</i> <i>Coring conducted in 5th gear, 2200 rpm, 600 psi down pressure.</i>		65%
5									
6									
7									
8									
9									
10							Bottom of Boring @ 9.0'		
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** \*Water added for coring.

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-36	<b>Page No.</b> 1 of 1	
<b>Project Name:</b> Micron Campus, Clay, New York							<b>Report No.</b> 28062B-03-1223	<b>Date Started</b> 09/08/23	
<b>Client:</b> Ramboll							<b>Date Finished</b> 09/08/23	<b>Surface Elev.</b> 394.7'	
<b>Location:</b> See Exploration Location Plan									
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> Chris O'Hara		<b>Casing Hammer:</b>		09/08/23	While Drilling	None Noted	2.0		
<b>Inspector:</b> Asitwa Sharma, EIT		<b>Other:</b>		09/08/23	Before Casing Removed	None Noted	4.2		
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		09/08/23	After Casing Removed	None Noted	out		
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		09/08/23	After Casing Removed	caved @ 3.8	out		
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1	0.0	2.0	SS/12	1-1-2-3		Brown SILT, some cmf SAND, trace fine GRAVEL, trace ROOTS (moist, soft)	3	
1									
2	2A	2.0	3.7	SS/12	4-4-4-100@5"		Grey/Brown mottled SILT, some cmf SAND, some mf GRAVEL (moist, stiff)	8	
3									
4	2B 3	3.7 4.0	3.9 4.2	SS/0	100@2"		Grey ROCK chips and fragments (moist) <i>No Recovery. Auger refusal @ 4.2'</i>	100+	
5							Bottom of Boring @ 4.2'		
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-37	<b>Page No.</b> 1 of 1	
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll		<b>Location:</b> See Exploration Location Plan		<b>Report No.</b> 28062B-03-1223	<b>Date Started</b> 09/07/23	<b>Date Finished</b> 09/07/23	<b>Surface Elev.</b> 394.3'
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> Chris O'Hara		<b>Casing Hammer:</b>		09/07/23	While Drilling	None Noted	0.0		
<b>Inspector:</b> Asitwa Sharma, EIT		<b>Other:</b>		09/07/23	Before Casing Removed	None Noted	8.0		
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		09/07/23	After Casing Removed	7.4	out		
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		09/07/23	After Casing Removed	caved @ 7.5	out		
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	<b>SPT "N" or RQD %</b>
0	1	0.0	2.0	SS/14	1-2-2-3		Brown SILT, trace fine SAND, trace ROOTS (moist, soft)	4	
1									
2	2	2.0	4.0	SS/18	4-7-7-7		Brown mottled SILT, trace fine SAND (moist, stiff)	14	
3									
4	3	4.0	6.0	SS/20	4-5-2-2		Brown SILT, trace fine SAND (wet, medium stiff)	7	
5									
6	4	6.0	8.0	SS/5	4-WH-WH-2		Brown SILT, little mf SAND, little CLAY (wet, very soft)	0	
7									
8	5	8.0	8.8	SS/7	3-100@4"		Grey/Brown SILT, little CLAY, little ROCK fragments, trace mf SAND (wet, hard)	100+	
9							<i>Auger refusal @ 9.1'</i>		
10							Bottom of Boring @ 9.1'		
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>		<b>B-38</b>	
						Page No.		1 of 1	
						Report No.		28062B-03-1223	
<b>Project Name:</b>		Micron Campus, Clay, New York				<b>Date Started</b>		09/08/23	
<b>Client:</b>		Ramboll				<b>Date Finished</b>		09/08/23	
<b>Location:</b>		See Exploration Location Plan				<b>Surface Elev.</b>		397.2'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>		B. Fletcher		<b>Casing:</b>		3 1/4" ID H.S.A.		<b>Date</b>	
<b>Driller:</b>		Chris O'Hara		<b>Casing Hammer:</b>				<b>Time</b>	
<b>Inspector:</b>		Asitwa Sharma, EIT		<b>Other:</b>				<b>Depth (Ft.)</b>	
<b>Drill Rig:</b>		CME 550X		<b>Soil Sampler:</b>		2" OD Split Barrel		<b>Casing At (Ft.)</b>	
<b>Type:</b>		ATV		<b>Hammer Wt:</b>		140 lbs.		09/08/23	
<b>Rod Size:</b>		AWJ		<b>Hammer Fall:</b>		30 in.		While Drilling	
								None Noted	
								None Noted	
								None Noted	
								caved @ 12.8	
								out	
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse		SPT "N" or RQD %
		From	To				m - medium	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
0	1	0.0	2.0	SS/20	1-1-1-2		FILL; Brown silt, fine sand, roots (moist)		2
1									
2	2	2.0	4.0	SS/21	5-5-5-5		FILL; Brown silt, fine sand (moist)		10
3									
4	3	4.0	5.2	SS/14	4-5-100@2"		Miscellaneous FILL; Brown mottled silt, fine sand, rock fragments, roots, metal (wet)		100+
5									
6	4	6.0	8.0	SS/10	6-8-11-12		Brown SILT and cmf SAND, some cmf GRAVEL (wet, very stiff)		19
7									
8	5	8.0	10.0	SS/15	10-10-11-13		Brown SILT and ROCK fragments, some cmf SAND, little mf GRAVEL (wet, very stiff)		21
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/13	38-37-100		Grey SILT and ROCK fragments, some cmf SAND, little mf GRAVEL (wet, hard)		137
15									
16									
17									
18	7	17.4	17.4	SS/0	100@0"		Augered hard @ 17.2'. Auger refusal @ 17.4'. No Recovery.		100+
19							Bottom of Boring @ 17.4'		
20									

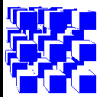
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-39	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-03-1223
<b>Project Name:</b> Micron Campus, Clay, New York					<b>Date Started</b> 09/07/23	<b>Date Finished</b> 09/07/23			
<b>Client:</b> Ramboll					<b>Surface Elev.</b> 397.0'				
<b>Location:</b> See Exploration Location Plan									
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> Chris O'Hara		<b>Casing Hammer:</b>		09/07/23	While Drilling	16.1	19.0		
<b>Inspector:</b> Asitwa Sharma, EIT		<b>Other:</b> NQ-Core		09/07/23	Before Casing Removed	2.9 *	19		
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		09/07/23	After Casing Removed	4.5 *	out		
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		09/07/23	After Casing Removed	caved @ 14.7	out		
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1	0.0	2.0	SS/24	1-1-4-6		Brown SILT, little mf SAND, trace ROOTS (moist, medium stiff)		5
1									
2	2	2.0	4.0	SS/16	4-5-3-2		Brown mottled SILT, little cmf SAND, trace fine GRAVEL (wet, stiff)		8
3									
4	3	4.0	6.0	SS/14	2-4-7-12		Brown cmf SAND and SILT, trace fine GRAVEL (wet, stiff)		11
5									
6	4	6.0	8.0	SS/15	10-8-10-12		Brown cmf SAND, some SILT, trace fine GRAVEL (wet, medium compact)		18
7									
8	5	8.0	10.0	SS/12	13-12-13-8		Brown/Grey cmf SAND, some SILT, trace fine GRAVEL (wet, very stiff)		25
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/11	8-17-24		Dark Grey cmf SAND, trace cmf GRAVEL, trace SILT (wet, compact)		41
15									
16									
17									
18							Augered hard @ 17.5'		
19	7 R1	18.5 19.0	18.7 24.0	SS/2 C/60	100@2" NQ-Core	-----	Dark Grey ROCK chips and fragments (wet) Auger refusal @ 19.0'		100+ 83%
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: \* Water added for coring.



**CME**  
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6035 Corporate Drive  
East Syracuse, NY 13057  
Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-39</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**


**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20							Continued from Page 1		
21							<i>Horizontal fractures with weathering at 20.3', 21.2' and 23.2'.</i>		
22							Recovery: 60"/60" = 100%		
23							RQD = 50"/60" = 83%		
24							8 pieces, 2" Chips and fragments		
							<i>1:50 min/ft, no water loss</i>		
							<i>Coring conducted in 5th gear, 2000 rpm, 500 psi down pressure.</i>		
							Bottom of Boring @ 24.0'		
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod


**Remarks:**



		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> B-40	<b>Page No.</b> 1 of 1
<b>Project Name:</b> Micron Campus, Clay, New York								<b>Report No.</b> 28062B-03-1223	<b>Date Started</b> 09/08/23
<b>Client:</b> Ramboll								<b>Date Finished</b> 09/08/23	<b>Surface Elev.</b> 396.5'
<b>Location:</b> See Exploration Location Plan									
<b>METHODS OF INVESTIGATION</b>						<b>GROUNDWATER OBSERVATIONS</b>			
<b>Driller:</b> B. Fletcher		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> Chris O'Hara		<b>Casing Hammer:</b>		09/08/23	While Drilling	18.3	18.5		
<b>Inspector:</b> Asitwa Sharma, EIT		<b>Other:</b>		09/08/23	Before Casing Removed	17.6	19.9		
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		09/08/23	After Casing Removed	None Noted	out		
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		09/08/23	After Casing Removed	caved @ 8.0	out		
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>			
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	<b>SPT "N" or RQD %</b>
0	1	0.0	2.0	SS/15	1-2-3-7		Brown SILT, little cmf SAND, trace fine GRAVEL, trace ROOTS (moist, medium stiff)	5	
1									
2	2	2.0	4.0	SS/19	5-4-4-4		Brown SILT, some cmf SAND, trace mf GRAVEL (wet, stiff)	8	
3									
4	3	4.0	6.0	SS/19	3-5-9-11		Brown mottled SILT, little cmf SAND, trace CLAY, trace fine GRAVEL (wet, stiff)	14	
5									
6	4	6.0	8.0	SS/14	11-13-17-18		Similar as above (wet, very stiff)	30	
7									
8	5	8.0	10.0	SS/24	11-19-19-52		Grey/Brown SILT and cmf SAND, little fine GRAVEL (wet, very stiff)	38	
9									
10									
11									
12									
13									
14	6	13.5	14.8	SS/16	30-71-100@4"		Grey SILT, some cmf SAND, little mf GRAVEL, trace CLAY (wet, hard)	100+	
15									
16									
17									
18									
19	7	18.5	19.3	SS/10	30-100@4"		Grey SILT and ROCK fragments, trace mf GRAVEL (wet, hard) <i>Auger refusal @ 19.9'</i>	100+	
20							Bottom of Boring @ 19.9'		


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-63					
				<b>Page No.</b> 1 of 1					
				<b>Report No.</b> 28062B-03-1223					
<b>Project Name:</b> Micron Campus, Clay, New York				<b>Date Started</b> 10/23/23					
<b>Client:</b> Ramboll				<b>Date Finished</b> 10/23/23					
<b>Location:</b> See Exploration Location Plan				<b>Surface Elev.</b> 400.5'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b> H. Lyon <b>Driller:</b> K. Crandall <b>Inspector:</b> A. Sharma, EIT <b>Drill Rig:</b> CME 45 <b>Type:</b> Track <b>Rod Size:</b> AW	<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>				
		10/23/23	While Drilling	None Noted	-				
		10/23/23	Before Casing Removed	None Noted	-				
		10/23/23	After Casing Removed	8.9	out				
		10/23/23	After Casing Removed	caved @ 9.6	out				
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.7	SS/12	1-2-5-7		Dark Brown Topsoil and Organic Material (moist)		7
1	1B	0.7	2.0				Brown cmf SAND, little SILT, little fine GRAVEL (moist, loose)		
2	2	2.0	4.0	SS/15	7-14-9-14		Brown SILT and cmf SAND, little mf GRAVEL (wet, very stiff)		23
3									
4	3	4.0	6.0	SS/22	7-8-9-7		Grey/Brown SILT and cmf SAND, some mf GRAVEL (wet, very stiff)		17
5									
6	4	6.0	8.0	SS/15	11-12-14-16		Similar as above (moist, very stiff)		26
7									
8	5	8.0	8.7	SS/8	9-50@2"		Dark Brown/Grey SILT and mf GRAVEL, some cmf SAND (moist, hard)		50+
9									
10	6	10.6	10.6	SS/0	50@0"		Auger refusal @ 10.6'		50+
11							No Recovery		
12							See Remark 1		
13							Bottom of Boring @ 11.5'		
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod


**Remarks:** 1. Boring was offset by 3.0' west of original location and augered. Auger started getting harder beginning @ 10.6' and refusal was achieved @ 11.5'.

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-65	<b>Page No.</b> 1 of 1	
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll		<b>Location:</b> See Exploration Location Plan		<b>Report No.</b> 28062B-03-1223	<b>Date Started</b> 10/24/23	<b>Date Finished</b> 10/24/23	<b>Surface Elev.</b> 402.5'
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> H. Lyon		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> K. Crandall		<b>Casing Hammer:</b>		10/24/23	While Drilling	None Noted	-		
<b>Inspector:</b> A. Sharma, EIT		<b>Other:</b>		10/24/23	Before Casing Removed	None Noted	-		
<b>Drill Rig:</b> CME 45		<b>Soil Sampler:</b> 2" OD Split Barrel		10/24/23	After Casing Removed	None Noted	out		
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		10/24/23	After Casing Removed	caved @ 4.3	out		
<b>Rod Size:</b> AW		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>Visual Classification</b> c - coarse m - medium f - fine and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		<b>SPT "N" or RQD %</b>
0	1A	0.0	0.4	SS/8	2-5-6-14	---	Dark Brown Topsoil and Organic Material (moist)		11
1	1B	0.4	2.0				Grey/Brown mf GRAVEL and cmf SAND, some SILT (moist, medium compact)		
2	2	2.0	4.0	SS/9	3-2-2-5		Brown SILT and cmf SAND, some mf GRAVEL (moist, medium stiff)		4
3									
4	3	4.0	5.1	SS/14	5-30-50@1"		Grey/Black SILT and cmf SAND, some mf GRAVEL (moist, hard)		50+
5							Auger refusal @ 5.0'		
6							Bottom of Boring @ 5.0'		
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod


**Remarks:**

Boring B-65 was offset west from the originally staked location by about 7 feet.

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-67	<b>Page No.</b> 1 of 1	
<b>Project Name:</b> Micron Campus, Clay, New York							<b>Report No.</b> 28062B-03-1223	<b>Date Started</b> 10/24/23	
<b>Client:</b> Ramboll							<b>Date Finished</b> 10/24/23	<b>Surface Elev.</b> 405.1'	
<b>Location:</b> See Exploration Location Plan									
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> H. Lyon		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> K. Crandall		<b>Casing Hammer:</b>		10/24/23	While Drilling	None Noted	-		
<b>Inspector:</b> A. Sharma, EIT		<b>Other:</b>		10/24/23	Before Casing Removed	None Noted	-		
<b>Drill Rig:</b> CME 45		<b>Soil Sampler:</b> 2" OD Split Barrel		10/24/23	After Casing Removed	None Noted	out		
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		10/24/23	After Casing Removed	caved @ 6.6	out		
<b>Rod Size:</b> AW		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1	0.0	2.0	SS/9	1-1-3-4		Brown SILT, some cmf SAND, little mf GRAVEL, trace ROOTS (moist, soft)	4	
1									
2	2	2.0	4.0	SS/16	5-7-9-12		Brown SILT and cmf SAND, little mf GRAVEL (moist, very stiff)	16	
3									
4	3	4.0	6.0	SS/19	5-3-3-9		Brown mottled SILT, some cmf SAND, some mf GRAVEL (moist, medium stiff)	6	
5									
6	4	6.0	7.7	SS/7	18-8-10-50@2"		Grey/Brown cmf GRAVEL and mf SAND, trace SILT (moist, medium compact)	18	
7							<i>Auger refusal @ 7.9'</i>		
8							Bottom of Boring @ 7.9'		
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-68	<b>Page No.</b> 1 of 1	<b>Report No.</b> 28062B-03-1223	
<b>Project Name:</b> Micron Campus, Clay, New York					<b>Date Started</b>	10/20/23		
<b>Client:</b> Ramboll					<b>Date Finished</b>	10/20/23		
<b>Location:</b> See Exploration Location Plan					<b>Surface Elev.</b>	398.5'		
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> H. Lyon		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b> K. Crandall		<b>Casing Hammer:</b>		10/20/23	While Drilling	None Noted	-	
<b>Inspector:</b> A. Sharma, EIT		<b>Other:</b>		10/20/23	Before Casing Removed	None Noted	-	
<b>Drill Rig:</b> CME 45		<b>Soil Sampler:</b> 2" OD Split Barrel		10/20/23	After Casing Removed	11.6	out	
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		10/20/23	After Casing Removed	caved @ 15.6	out	
<b>Rod Size:</b> AW		<b>Hammer Fall:</b> 30 in.						
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1A	0.0	0.6	SS/13	1-2-3-4	---	Dark Grey Topsoil and Organic Matter (moist)	5
1	1B	0.6	2.0				Brown mottled SILT, little fine SAND, trace mf GRAVEL (moist, medium stiff)	
2	2	2.0	2.9	SS/7	3-50@5"		Grey/Brown mottled SILT, some cmf SAND (moist, hard) <i>Possible Obstruction</i> <i>Augered gravelly beginning @ 3.0'</i>	50+
3								
4	3	4.0	6.0	SS/13	21-6-5-6		Brown SILT, some cmf SAND, trace mf GRAVEL (wet, stiff)	11
5								
6	4	6.0	8.0	SS/17	7-9-7-7		Brown SILT and cmf SAND, some mf GRAVEL (wet, very stiff)	16
7								
8	5	8.0	10.0	SS/17	4-9-14-16		Grey SILT, some CLAY, trace cmf SAND (moist, very stiff)	23
9								
10								
11								
12								
13	6	13.0	14.4	SS/12	34-35-50@5"		Dark Grey/Black SILT, some cmf GRAVEL, some cmf SAND (moist, hard)	50+
14								
15								
16								
17							<i>Augered hard beginning @ 17.3'</i>	
18	7	18.0	19.2	SS/7	24-44-50@2"		Dark Grey/Black highly weathered ROCK fragments, trace cmf SAND, trace mf GRAVEL (moist)	50+
19							<i>Auger refusal @ 18.8'</i>	
20							Bottom of Boring @ 19.2'	

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Boring B-68 was offset southwest from the originally staked location by about 7 feet.

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-81	<b>Page No.</b> 1 of 2	
<b>Project Name:</b> Micron Campus, Clay, New York							<b>Report No.</b> 28062B-03-1223	<b>Date Started</b> 10/19/23	
<b>Client:</b> Ramboll							<b>Date Finished</b> 10/19/23	<b>Surface Elev.</b> 404.4'	
<b>Location:</b> See Exploration Location Plan									
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> H. Lyon		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> K. Crandall		<b>Casing Hammer:</b>		10/19/23	While Drilling	8.4	7.5		
<b>Inspector:</b> A. Sharma, EIT		<b>Other:</b>		10/19/23	Before Casing Removed	None Noted	21.7		
<b>Drill Rig:</b> CME 45		<b>Soil Sampler:</b> 2" OD Split Barrel		10/19/23	After Casing Removed	19.6	out		
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		10/19/23	After Casing Removed	caved @ 20.7	out		
<b>Rod Size:</b> AW		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse</b> <b>m - medium</b> <b>f - fine</b>	<b>and - 35 to 50% / some - 20 to 35%</b> <b>little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1A	0.0	0.7	SS/13	1-1-4-7	---	Topsoil and Organic Material (moist)		5
1	1B	0.7	2.0				Brown SILT, trace fine SAND, trace CLAY (moist, medium stiff)		
2	2	2.0	4.0	SS/16	4-6-6-7		Brown cmf SAND and SILT, little mf GRAVEL (moist, medium compact)		12
3							<i>Augered gravelly beginning @ 4.0'</i>		
4	3	4.0	6.0	SS/5	20-10-15-9		Grey/Brown mf GRAVEL, little SILT, trace fine SAND (moist, medium compact)		25
5									
6	4	6.0	8.0	SS/8	4-4-7-9		Brown mottled SILT, some CLAY, little cmf SAND, trace mf GRAVEL (wet, stiff)		11
7									
8	5	8.0	10.0	SS/20	3-6-8-10		Grey/Brown SILT and cmf SAND, some mf GRAVEL, trace CLAY (wet, stiff)		14
9							<i>PP=2.75, 2, 2</i>		
10									
11									
12									
13	6	13.0	15.0	SS/12	6-12-12-18		Grey CLAY and SILT, little cmf SAND (wet, very stiff)		24
14							<i>PP=1, 1.5, 1.25</i>		
15									
16									
17							<i>Augered hard beginning @ 16.8'</i>		
18	7	18.0	19.4	SS/16	21-40-50@5"		Grey SILT and cmf SAND, some fine GRAVEL, little CLAY (wet, hard)		50+
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

PP - Pocket Penetrometer Results in tsf

**Remarks:**



**CME**  
Associates, Inc.

6035 Corporate Drive  
East Syracuse, NY 13057  
Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-81</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20	8	21.7	21.7	SS/0	50@0"				Continued from Page 1  <i>Auger refusal @ 21.7'</i> <i>No Recovery. See Remark 1</i> <i>Bottom of Boring @ 21.7'</i>
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Grey ROCK chips and fragments on spoon top

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-83	<b>Page No.</b> 1 of 1	<b>Report No.</b> 28062B-03-1223			
<b>Project Name:</b> Micron Campus, Clay, New York					<b>Date Started</b>	10/24/23				
<b>Client:</b> Ramboll					<b>Date Finished</b>	10/24/23				
<b>Location:</b> See Exploration Location Plan					<b>Surface Elev.</b>	404.8'				
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b> H. Lyon		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>			
<b>Driller:</b> K. Crandall		<b>Casing Hammer:</b>		10/24/23	While Drilling	None Noted	-			
<b>Inspector:</b> A. Sharma, EIT		<b>Other:</b>		10/24/23	Before Casing Removed	None Noted	-			
<b>Drill Rig:</b> CME 45		<b>Soil Sampler:</b> 2" OD Split Barrel		10/24/23	After Casing Removed	None Noted	out			
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		10/24/23	After Casing Removed	caved @ 8.5'	out			
<b>Rod Size:</b> AW		<b>Hammer Fall:</b> 30 in.								
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To							
0	1	0.0	2.0	SS/17	1-1-3-3		Brown SILT, little cmf SAND, trace fine GRAVEL, trace CLAY, trace ROOTS (moist, medium stiff)		4	
1										
2	2	2.0	4.0	SS/14	3-3-4-3		Brown mottled SILT, little cmf SAND, trace mf GRAVEL, trace CLAY (wet, medium stiff)		7	
3										
4	3	4.0	6.0	SS/13	3-6-10-8		Brown mottled SILT and cmf SAND, some cmf GRAVEL (wet, very stiff)		16	
5										
6	4	6.0	8.0	SS/17	7-9-16-24		Brown SILT, some cmf SAND, some mf GRAVEL (wet, very stiff)		25	
7										
8	5	8.0	10.0	SS/12	12-22-24-33		Brown SILT, some mf GRAVEL, little cmf SAND (wet, hard)		46	
9										
10										
11	6	11.3	11.3	SS/0	50@0"		<i>Augered harder beginning @ 10.8'. Auger refusal @ 11.3'.            No Recovery</i>		50+	
12							Bottom of Boring @ 11.3'			
13										
14										
15										
16										
17										
18										
19										
20										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**





6035 Corporate Drive  
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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-85</b>
<b>Page No.</b>	1 of 1
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	10/24/23
<b>Date Finished</b>	10/24/23
<b>Surface Elev.</b>	404.7'


<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	H. Lyon	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	K. Crandall	<b>Casing Hammer:</b>		10/24/23	While Drilling	None Noted	-
<b>Inspector:</b>	A. Sharma, EIT	<b>Other:</b>		10/24/23	Before Casing Removed	None Noted	-
<b>Drill Rig:</b>	CME 45	<b>Soil Sampler:</b>	2" OD Split Barrel	10/24/23	After Casing Removed	None Noted	out
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.	10/24/23	After Casing Removed	caved @ 6.5'	out
<b>Rod Size:</b>	AW	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5	SS/20	1-1-2-3		Topsoil and Organic Material (moist)		3
1	1B	0.5	2.0				Brown SILT, little cmf SAND, trace mf GRAVEL (moist, soft)		
2	2	2.0	4.0	SS/14	2-4-5-5		Brown SILT, little cmf SAND, trace mf GRAVEL (moist, stiff)		9
3									
4	3	4.0	6.0	SS/18	4-4-10-14		Light Brown mottled SILT, some mf GRAVEL, trace cmf SAND (moist, stiff)		14
5							Augered gravelly beginning @ 5.5'		
6	4	6.0	7.4	SS/12	12-20-50@5"		Brown SILT and cmf GRAVEL, little cmf SAND (wet, hard)		50+
7							Auger refusal @ 7.4'		
8							Bottom of Boring @ 7.4'		
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> B-87 <b>Page No.</b> 1 of 1 <b>Report No.</b> 28062B-03-1223					
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 10/24/23		<b>Client:</b> Ramboll		<b>Date Finished:</b> 10/24/23					
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 403.8'		<b>METHODS OF INVESTIGATION</b>							
<b>Driller:</b> H. Lyon <b>Casing:</b> 3 1/4" ID H.S.A. <b>Driller:</b> K. Crandall <b>Casing Hammer:</b> <b>Inspector:</b> A. Sharma, EIT <b>Other:</b> <b>Drill Rig:</b> CME 45 <b>Soil Sampler:</b> 2" OD Split Barrel <b>Type:</b> Track <b>Hammer Wt:</b> 140 lbs. <b>Rod Size:</b> AW <b>Hammer Fall:</b> 30 in.				<b>GROUNDWATER OBSERVATIONS</b>							
				<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>	
				10/24/23		While Drilling		None Noted		-	
				10/24/23		Before Casing Removed		None Noted		-	
				10/24/23		After Casing Removed		None Noted		out	
				10/24/23		After Casing Removed		caved @ 8.5		out	
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
		From	To				m - medium f - fine				
0	1A	0.0	0.7	SS/15	1-2-4-10	---	Dark Brown Topsoil and Organic Material (moist)				6
1	1B	0.7	2.0				Brown mottled SILT, little cmf SAND, trace mf GRAVEL (moist, medium stiff)				
2	2	2.0	4.0	SS/14	5-7-4-3		Brown mottled cmf SILT and SAND, little mf GRAVEL (moist, stiff)				11
3							<i>Augered gravelly beginning @ 3.5'</i>				
4	3	4.0	6.0	SS/18	1-3-5-6		Brown mottled SILT, some cmf SAND, little mf GRAVEL, trace CLAY (wet, stiff)				8
5											
6	4	6.0	8.0	SS/15	6-7-1-2		Brown mottled SILT and cmf SAND, little mf GRAVEL (wet, stiff)				8
7											
8	5	8.0	9.9	SS/12	5-7-10-50@5"	---	Grey weathered ROCK chips and fragments, little mf GRAVEL, trace SILT (wet)				17
9							<i>Auger refusal @ 9.9'</i>				
10							Bottom of Boring @ 9.9'				
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

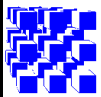
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-88	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-03-1223			
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll		<b>Date Started:</b> 10/20/23		<b>Date Finished:</b> 10/20/23			
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 404.6'							
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b> H. Lyon <b>Driller:</b> K. Crandall <b>Inspector:</b> A. Sharma, EIT <b>Drill Rig:</b> CME 45 <b>Type:</b> Track <b>Rod Size:</b> AW		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				10/20/23	While Drilling	12.5	13.0		
				10/20/23	Before Casing Removed	16.5	33		
				10/20/23	After Casing Removed	11.5	out		
				10/20/23	After Casing Removed	caved @ 25.2	out		
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse m - medium f - fine</b>	<b>and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1A	0.0	0.5	SS/16	1-2-4-6	---	Topsoil and Organic Material (moist)		6
1	1B	0.5	2.0				Brown mottled SILT, little fine SAND, trace CLAY, trace ROOTS (moist, medium stiff)		
2	2	2.0	4.0	SS/19	8-7-5-4		Brown mottled SILT, little fine SAND, trace CLAY (wet, stiff)		12
3									
4	3	4.0	6.0	SS/18	1-2-1-4		Brown SILT, little CLAY, trace cmf SAND, trace fine GRAVEL (wet, soft)		3
5									
6	4	6.0	8.0	SS/19	4-6-6-8		Brown SILT, some CLAY, trace fine SAND (wet, stiff)		12
7									
8	5	8.0	10.0	SS/20	5-8-9-11		Similar as above (wet, very stiff)		17
9									
10									
11									
12							<i>Augered gravelly beginning @ 12.0'</i>		
13	6	13.0	15.0	SS/8	32-5-3-8		Grey SILT and cmf SAND, some CLAY, some fine GRAVEL (wet, stiff)		8
14									
15									
16									
17							<i>Augered gravelly beginning @ 16.5'</i>		
18	7	18.0	18.8	SS/4	23-50@3"		Grey/Red cmf GRAVEL, little cmf SAND, trace SILT (moist, very compact)		50+
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
Associates, Inc.

6035 Corporate Drive  
East Syracuse, NY 13057  
Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-88</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20							Continued from Page 1		
21									
22									
23	8	23.0	24.5	SS/10	19-25-35		Grey SILT, some CLAY, trace mf SAND (moist, hard)		60
24									
25									
26									
27									
28	9	28.0	29.5	SS/10	18-26-50		Grey SILT and CLAY, little fine SAND, trace mf GRAVEL (wet, hard)		76
29									
30									
31									
32							<i>Augered gravelly beginning @ 31.7'</i>		
33	10	33.0	33.7	SS/5	53-50@2"		Similar as above (wet, hard) <i>Augered to 34.2'</i>		50+
34							<i>Bottom of Boring @ 34.2'</i>		
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>	<b>B-90</b>		
						<b>Page No.</b>	1 of 1		
						<b>Report No.</b>	28062B-03-1223		
<b>Project Name:</b>	Micron Campus, Clay, New York				<b>Date Started</b>	10/23/23			
<b>Client:</b>	Ramboll				<b>Date Finished</b>	10/23/23			
<b>Location:</b>	See Exploration Location Plan				<b>Surface Elev.</b>	406.0'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>	H. Lyon	<b>Casing:</b>	3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b>	K. Crandall	<b>Casing Hammer:</b>			10/23/23	While Drilling	8.0	8.0	
<b>Inspector:</b>	A. Sharma, EIT	<b>Other:</b>			10/23/23	Before Casing Removed	None Noted	18.5	
<b>Drill Rig:</b>	CME 45	<b>Soil Sampler:</b>	2" OD Split Barrel		10/23/23	After Casing Removed	9.5	out	
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.		10/23/23	After Casing Removed	caved @ 14.5	out	
<b>Rod Size:</b>	AW	<b>Hammer Fall:</b>	30 in.						
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5	SS/16	2-2-3-4		Grey/Brown Topsoil and Organic Material (moist)		5
1	1B	0.5	2.0				Grey/Brown mottled SILT, trace fine SAND, trace CLAY (moist, medium stiff)		
2	2	2.0	4.0	SS/15	5-5-5-4		Brown SILT, little CLAY, trace fine SAND (wet, stiff)		10
3									
4	3	4.0	6.0	SS/17	8-17-29-33		Brown/Grey SILT, trace cmf SAND, trace CLAY (wet, hard)		46
5									
6	4	6.0	8.0	SS/21	5-6-9-11		Brown SILT, some cmf SAND (wet, very stiff)		15
7									
8	5	8.0	10.0	SS/14	5-10-40-40		Grey/Reddish Brown cmf GRAVEL and cmf SAND, some SILT (moist, very compact)		50
9									
10							<i>Augered hard beginning @ 10.5'</i>		
11									
12							<i>Augered very hard beginning @ 12.6'</i>		
13	6	12.6	12.9	SS/2	50@3"		Grey cmf SAND and SILT, little mf GRAVEL (moist, very compact)		50+
14	7	14.0	14.2	SS/2	50@2"		Grey cmf SILT and SAND, trace fine GRAVEL (moist, hard)		50+
15									
16									
17									
18	8	18.0	18.4	SS/4	50@5"		Grey SILT and cmf SAND, little fine GRAVEL (wet, hard)		50+
19							<i>Auger refusal @ 18.5'</i>		
20							Bottom of Boring @ 18.5'		


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-94	<b>Page No.</b> 1 of 1	<b>Report No.</b> 28062B-03-1223			
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started</b> 10/24/23		<b>Date Finished</b> 10/24/23		<b>Surface Elev.</b> 406.8'			
<b>Client:</b> Ramboll		<b>Methods of Investigation</b>		<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b> H. Lyon		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> K. Crandall		<b>Casing Hammer:</b>		10/24/23	While Drilling	None Noted	-		
<b>Inspector:</b> A. Sharma, EIT		<b>Other:</b>		10/24/23	Before Casing Removed	None Noted	-		
<b>Drill Rig:</b> CME 45		<b>Soil Sampler:</b> 2" OD Split Barrel		10/24/23	After Casing Removed	None Noted	out		
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		10/24/23	After Casing Removed	caved @ 7.7	out		
<b>Rod Size:</b> AW		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse m - medium f - fine</b>	<b>and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1	0.0	2.0	SS/14	1-2-2-2		Dark Brown SILT, little fine SAND, trace ROOTS (moist, medium stiff)	4	
1									
2	2	2.0	4.0	SS/15	2-2-3-4		Brown mottled SILT, little mf SAND, trace CLAY (moist, medium stiff)	5	
3									
4	3	4.0	6.0	SS/14	3-9-11-14		Brown mottled SILT, some cmf SAND, little mf GRAVEL, trace CLAY (wet, very stiff)	20	
5							<i>Augered gravelly beginning @ 6.0'</i>		
6	4	6.0	8.0	SS/9	12-11-7-14		Brown cmf SAND and SILT, some mf GRAVEL (wet, medium compact)	18	
7									
8	5	8.0	8.9	SS/7	18-50@5"		Dark Brown cmf SAND and mf GRAVEL, trace SILT (moist, very compact) <i>Auger refusal @ 8.9'</i>	50+	
9							Bottom of Boring @ 8.9'		
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>		<b>B-96</b>	
						Page No.		1 of 1	
						Report No.		28062B-03-1223	
<b>Project Name:</b>		Micron Campus, Clay, New York				<b>Date Started</b>		10/24/23	
<b>Client:</b>		Ramboll				<b>Date Finished</b>		10/24/23	
<b>Location:</b>		See Exploration Location Plan				<b>Surface Elev.</b>		407.8'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>		H. Lyon		<b>Casing:</b>		3 1/4" ID H.S.A.		<b>Date</b>	
<b>Driller:</b>		K. Crandall		<b>Casing Hammer:</b>				<b>Time</b>	
<b>Inspector:</b>		A. Sharma, EIT		<b>Other:</b>				<b>Depth (Ft.)</b>	
<b>Drill Rig:</b>		CME 45		<b>Soil Sampler:</b>		2" OD Split Barrel		<b>Casing At (Ft.)</b>	
<b>Type:</b>		Track		<b>Hammer Wt:</b>		140 lbs.		10/24/23	
<b>Rod Size:</b>		AW		<b>Hammer Fall:</b>		30 in.		10/24/23	
								While Drilling	
								None Noted	
								-	
								None Noted	
								-	
								None Noted	
								out	
								caved @ 9.1	
								out	
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse		SPT "N" or RQD %
		From	To				m - medium	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
0	1A	0.0	0.5	SS/17	1-WH-1-1		Topsoil and Organic Material (moist)		1
1	1B	0.5	2.0				Brown SILT, trace cmf SAND, trace CLAY, trace fine GRAVEL (moist, very soft)		
2	2	2.0	4.0	SS/13	2-2-3-5		Brown mottled SILT, little cmf SAND, trace mf GRAVEL (wet, medium stiff)		5
3									
4	3	4.0	6.0	SS/19	2-2-4-6		Brown mottled SILT and cmf SAND, little mf GRAVEL (wet, medium stiff)		6
5									
6	4	6.0	8.0	SS/15	12-12-12-14		Augered gravelly beginning @ 6.0' Brown mottled SILT, some mf GRAVEL, some cmf SAND (wet, very stiff)		24
7									
8	5	8.0	10.0	SS/10	14-28-35-35		Grey ROCK chips and fragments, some cmf GRAVEL, little cmf SAND, trace SILT (moist)		63
9									
10	6	10.0	10.6	SS/4	20-50@1"		Similar as above (moist) Auger refusal @ 10.6'		50+
11							Bottom of Boring @ 10.6'		
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-103					
				<b>Page No.</b> 1 of 1					
				<b>Report No.</b> 28062B-03-1223					
<b>Project Name:</b> Micron Campus, Clay, New York				<b>Date Started</b> 10/24/23					
<b>Client:</b> Ramboll				<b>Date Finished</b> 10/25/23					
<b>Location:</b> See Exploration Location Plan				<b>Surface Elev.</b> 408.5'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b> H. Lyon <b>Driller:</b> K. Crandall <b>Inspector:</b> A. Sharma, EIT <b>Drill Rig:</b> CME 45 <b>Type:</b> Track <b>Rod Size:</b> AW	<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>				
		10/24/23	While Drilling	None Noted	-				
		10/25/23	Before Casing Removed	None Noted	-				
		10/25/23	After Casing Removed	None Noted	out				
		10/25/23	After Casing Removed	caved @ 8.2	out				
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/8	1-3-3-5		Dark Brown SILT, little fine SAND, trace CLAY, trace ROOTS (moist, medium stiff)		6
1									
2	2	2.0	4.0	SS/6	5-5-6-9		Brown cmf GRAVEL, some SILT, little cmf SAND (moist, medium compact)		11
3									
4	3	4.0	6.0	SS/18	2-3-4-5		Brown SILT and cmf SAND, some mf GRAVEL (moist, medium stiff)		7
5									
6	4	6.0	8.0	SS/21	7-19-15-23		Grey/Brown SILT and mf GRAVEL, some cmf SAND (moist, hard)		34
7									
8	5	8.0	9.8	SS/12	25-25-34-39		Grey/Brown cmf GRAVEL and SILT, some cmf SAND (moist, very compact)		59
9							<i>Auger refusal @ 9.8'</i>		
10							Bottom of Boring @ 9.8'		
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Offset by 5.0' south due to proximity with a tree.





6035 Corporate Drive  
 East Syracuse, NY 13057  
 Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-105</b>
<b>Page No.</b>	1 of 1
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	10/25/23
<b>Date Finished</b>	10/25/23
<b>Surface Elev.</b>	406.4'


<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	H. Lyon	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	K. Crandall	<b>Casing Hammer:</b>		10/25/23	While Drilling	None Noted	-
<b>Inspector:</b>	A. Sharma, EIT	<b>Other:</b>		10/25/23	Before Casing Removed	None Noted	-
<b>Drill Rig:</b>	CME 45	<b>Soil Sampler:</b>	2" OD Split Barrel	10/25/23	After Casing Removed	None Noted	out
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.	10/25/23	After Casing Removed	caved @ 5.6	out
<b>Rod Size:</b>	AW	<b>Hammer Fall:</b>	30 in.				


LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/14	1-1-1-2		Grey/Brown SILT, little fine SAND, trace CLAY, trace ROOTS (wet, soft)	2	
1									
2	2	2.0	4.0	SS/16	2-2-6-12		Brown mottled SILT, some cmf SAND, little mf GRAVEL (wet, stiff)	8	
3									
4	3	4.0	6.0	SS/10	4-7-4-5		Brown/Grey SILT and cmf SAND, little mf GRAVEL (wet, stiff)	11	
5									
6	4	6.0	6.4	SS/5	50@5"		Dark Brown/Grey cmf SAND and mf GRAVEL, some SILT (moist, very compact) <i>Augered gravelly beginning @ 6.3'</i>	50+	
7							<i>Bottom of Boring @ 6.4'</i>		
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

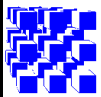
 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-114	<b>Page No.</b> 1 of 1	<b>Report No.</b> 28062B-03-1223			
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started</b> 10/25/23			<b>Date Finished</b> 10/25/23					
<b>Client:</b> Ramboll		<b>Surface Elev.</b> 409.8'								
<b>Location:</b> See Exploration Location Plan										
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b> H. Lyon		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>			
<b>Driller:</b> K. Crandall		<b>Casing Hammer:</b>		10/25/23	While Drilling	None Noted	-			
<b>Inspector:</b> A. Sharma, EIT		<b>Other:</b>		10/25/23	Before Casing Removed	None Noted	-			
<b>Drill Rig:</b> CME 45		<b>Soil Sampler:</b> 2" OD Split Barrel		10/25/23	After Casing Removed	None Noted	out			
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		10/25/23	After Casing Removed	caved @ 7.8	out			
<b>Rod Size:</b> AW		<b>Hammer Fall:</b> 30 in.								
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To							
0	1A	0.0	0.5	SS/14	1-2-2-3		Topsoil and Organic Material (moist)		4	
1	1B	0.5	2.0				Brown SILT, little fine SAND (moist, medium stiff)			
2	2	2.0	4.0	SS/16	2-3-2-8		Brown SILT, little cmf SAND, trace CLAY, trace mf GRAVEL (moist, medium stiff)		5	
3										
4	3	4.0	6.0	SS/14	4-8-14-20		Grey SILT, some cmf SAND, some mf GRAVEL, little CLAY (moist, very stiff)		22	
5										
6	4	6.0	8.0	SS/15	14-20-21-25		Similar as above (moist, hard)		41	
7										
8	5	8.0	8.6	SS/5	40-50@1"		Grey/Brown cmf GRAVEL and SILT, little cmf SAND (moist, very compact)		50+	
9							<i>Auger refusal @ 9.5'</i>			
10							Bottom of Boring @ 9.5'			
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-116 <b>Page No.</b> 1 of 2 <b>Report No.</b> 28062B-03-1223					
<b>Project Name:</b>	Micron Campus, Clay, New York		<b>Date Started</b>	10/19/23					
<b>Client:</b>	Ramboll		<b>Date Finished</b>	10/20/23					
<b>Location:</b>	See Exploration Location Plan		<b>Surface Elev.</b>	406.3'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	H. Lyon	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>					
<b>Driller:</b>	K. Crandall	<b>Casing Hammer:</b>		<b>Time</b>					
<b>Inspector:</b>	A. Sharma, EIT	<b>Other:</b>		<b>Depth (Ft.)</b>					
<b>Drill Rig:</b>	CME 45	<b>Soil Sampler:</b>	2" OD Split Barrel	<b>Casing At (Ft.)</b>					
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.	10/20/23					
<b>Rod Size:</b>	AW	<b>Hammer Fall:</b>	30 in.	10/20/23					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/17	2-6-7-7		Topsoil and Organic Material (moist)		13
1	1B	0.5	2.0				Brown/Grey mottled SILT, little fine SAND, trace ROOTS (moist, stiff)		
2	2	2.0	4.0	SS/12	5-7-8-8		Brown SILT, little fine SAND, trace CLAY (wet, very stiff)		15
3									
4	3	4.0	6.0	SS/13	10-22-33-40		Grey/Brown SILT, little fine SAND, trace CLAY (wet, hard) <i>Augered gravelly @ 4.0'</i>		55
5									
6	4	6.0	8.0	SS/17	17-30-35-32		Similar as above (moist, hard)		65
7									
8	5	8.0	10.0	SS/14	8-4-4-7		Grey SILT, some cmf SAND, some CLAY, trace fine GRAVEL (wet, stiff)		8
9									
10							<i>Augered gravelly beginning @ 10.0' to 11.0'</i>		
11									
12									
13	6	13.0	14.8	SS/18	4-17-47-50@3"		Grey SILT, some cmf SAND, little CLAY, trace fine GRAVEL (moist, hard) <i>Augered hard beginning @ 13.7'</i>		64
14									
15									
16									
17									
18	7	18.0	18.3	SS/3	50@3"		Grey cmf GRAVEL, some cmf SAND (moist, very compact)		50+
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
Associates, Inc.

6035 Corporate Drive  
East Syracuse, NY 13057  
Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-116</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20							Continued from Page 1		
21									
22									
23	8	23.0	25.0	SS/12	12-29-25-27		Grey SILT, some cmf SAND, some mf GRAVEL, some CLAY (moist, hard)		54
24									
25									
26									
27									
28	9	28.5	30.0	SS/16	33-75-41		Grey cmf SAND and SILT, little mf GRAVEL (wet, very compact)		116
29									
30									
31									
32									
33	10	33.5	33.5	SS/0	50@0"		<i>Auger refusal @ 33.5'</i> <i>No Recovery</i>		50+
34									
35							Bottom of Boring @ 33.5'		
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>	<b>B-121</b>		
						<b>Page No.</b>	1 of 1		
						<b>Report No.</b>	28062B-03-1223		
<b>Project Name:</b>	Micron Campus, Clay, New York				<b>Date Started</b>	09/11/23			
<b>Client:</b>	Ramboll				<b>Date Finished</b>	09/11/23			
<b>Location:</b>	See Exploration Location Plan				<b>Surface Elev.</b>	414.8'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>	Brian Swartz	<b>Casing:</b>	4 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b>	Jason Ersing	<b>Casing Hammer:</b>			09/11/23	While Drilling	None Noted	0.0	
<b>Inspector:</b>	Astitwa Sharma, EIT	<b>Other:</b>			09/11/23	Before Casing Removed	None Noted	14.6	
<b>Drill Rig:</b>	CME LC 55	<b>Soil Sampler:</b>	2" OD Split Barrel		09/11/23	After Casing Removed	None Noted	out	
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.		09/11/23	After Casing Removed	caved @ 7.8	out	
<b>Rod Size:</b>	NWJ	<b>Hammer Fall:</b>	30 in.						
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/17	WH-1-2-3		Brown SILT, little cmf SAND, trace fine GRAVEL, trace ROOTS (moist, soft)	3	
1									
2	2	2.0	4.0	SS/12	4-6-6-7		Brown mottled SILT, some cmf SAND, little mf GRAVEL (moist, stiff)	12	
3									
4	3	4.0	6.0	SS/14	3-3-3-8		Similar as above (wet, medium stiff)	6	
5									
6	4	6.0	8.0	SS/13	11-20-18-26		Grey/Brown cmf SAND and SILT, little mf GRAVEL (moist, compact)	38	
7									
8	5	8.0	9.7	SS/13	21-39-79-100@2"		Dark Grey cmf SAND and mf GRAVEL, little SILT (moist, very compact)	118	
9									
10									
11									
12									
13	6	13.0	13.8	SS/7	37-100@3"		Grey cmf SAND and mf GRAVEL, little SILT, little ROCK fragmen (moist, very compact)	100+	
14							Auger refusal @ 14.6'		
15							Bottom of Boring @ 14.6'		
16									
17									
18									
19									
20									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> B-122			
						Page No.		1 of 1	
						Report No.		28062B-03-1223	
<b>Project Name:</b> Micron Campus, Clay, New York						<b>Date Started</b> 09/11/23			
<b>Client:</b> Ramboll						<b>Date Finished</b> 09/11/23			
<b>Location:</b> See Exploration Location Plan						<b>Surface Elev.</b> 418.8'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> Brian Swartz		<b>Casing:</b> 4 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>			
<b>Driller:</b> Jason Ersing		<b>Casing Hammer:</b>		09/11/23		While Drilling			
<b>Inspector:</b> Astitwa Sharma, EIT		<b>Other:</b>		09/11/23		Before Casing Removed			
<b>Drill Rig:</b> CME LC 55		<b>Soil Sampler:</b> 2" OD Split Barrel		09/11/23		After Casing Removed			
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		09/11/23		After Casing Removed			
<b>Rod Size:</b> NWJ		<b>Hammer Fall:</b> 30 in.				caved @ 7.5'			
						out			
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/18	WH-1-2-3		Brown mottled SILT, little cmf SAND, trace fine GRAVEL, trace ROOTS (moist, soft)	3	
1									
2	2	2.0	4.0	SS/14	10-12-23-36		Brown mottled SILT, little cmf SAND, trace fine GRAVEL (moist, hard)	35	
3									
4	3	4.0	6.0	SS/18	20-25-36-33		Brown SILT, some cmf SAND, little mf GRAVEL (moist, hard)	61	
5									
6	4	6.0	8.0	SS/15	36-38-43-40		Brown/Red cmf SAND, some mf GRAVEL, little SILT (moist, very compact)	81	
7									
8	5	8.0	10.0	SS/16	39-50-57-59		Grey/Brown cmf SAND, some SILT, some mf GRAVEL, little ROCK fragments (moist, very compact)	107	
9									
10									
11									
12									
13	6	13.0	13.3	SS/2	100@3"		Grey cmf SAND and mf GRAVEL, little SILT, little ROCK fragments (moist, very compact)	100+	
14							Auger refusal @ 13.6'		
15							Bottom of Boring @ 13.6'		
16									
17									
18									
19									
20									

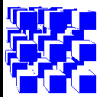
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No. B-123</b> <b>Page No. 1 of 2</b> <b>Report No. 28062B-03-1223</b>						
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 09/11/23									
<b>Client:</b> Ramboll		<b>Date Finished:</b> 09/11/23									
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 418.3'									
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>							
<b>Driller:</b> Brian Swartz		<b>Casing:</b> 4 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>	
<b>Driller:</b> Jason Ersing		<b>Casing Hammer:</b>		09/11/23		While Drilling		3.8		4.0	
<b>Inspector:</b> Astitwa Sharma, EIT		<b>Other:</b>		09/11/23		Before Casing Removed		None Noted		20.2	
<b>Drill Rig:</b> CME LC 55		<b>Soil Sampler:</b> 2" OD Split Barrel		09/11/23		After Casing Removed		4		out	
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		09/11/23		After Casing Removed		cave @ 6.4		out	
<b>Rod Size:</b> NWJ		<b>Hammer Fall:</b> 30 in.									
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
0	1	0.0	2.0	SS/6	WH-WH-1-4		Brown SILT, little mf SAND, trace ROOTS (moist, very soft)				1
1											
2	2	2.0	4.0	SS/14	7-11-13-16		Brown SILT, some mf SAND (wet, very stiff)				24
3											
4	3	4.0	6.0	SS/15	6-17-23-27		Brown SILT, some fine SAND (wet, hard)				40
5											
6	4	6.0	8.0	SS/24	34-32-41-44		Brown SILT, some fine SAND (wet, hard)				73
7											
8	5	8.0	10.0	SS/19	19-31-38-43		Grey/Brown SILT and cmf SAND, little fine GRAVEL (wet, hard)				69
9											
10											
11											
12											
13											
14	6	13.0	13.8	SS/9	41-100@3"		Grey/Red cmf SAND, some SILT, little cmf GRAVEL (wet, very compact)				100+
15											
16											
17											
18	7	18.0	19.4	SS/11	31-61-100@5"		Dark Grey cmf SAND, some mf GRAVEL, little SILT (wet, very compact)				100+
19											
20							Continued on Page 2				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-123</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**


**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	Visual Classification		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20							Continued from Page 1 <i>Auger refusal @ 20.2'</i>		
21							Bottom of Boring @ 20.2'		
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

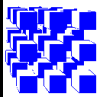
**Remarks:**



 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>		<b>B-151</b>	
						<b>Page No.</b>		1 of 2	
						<b>Report No.</b>		28062B-03-1223	
<b>Project Name:</b>		Micron Campus, Clay, New York				<b>Date Started</b>		10/26/23	
<b>Client:</b>		Ramboll				<b>Date Finished</b>		10/26/23	
<b>Location:</b>		See Exploration Location Plan				<b>Surface Elev.</b>		403.5'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>		B. Fletcher		<b>Casing:</b>		3 1/4" ID H.S.A.		<b>Date</b>	
<b>Driller:</b>		R. Casatelli		<b>Casing Hammer:</b>				<b>Time</b>	
<b>Inspector:</b>				<b>Other:</b>		NQ-Core		<b>Depth (Ft.)</b>	
<b>Drill Rig:</b>		CME 550X		<b>Soil Sampler:</b>		2" OD Split Barrel		<b>Casing At (Ft.)</b>	
<b>Type:</b>		ATV		<b>Hammer Wt:</b>		140 lbs.		10/26/23	
<b>Rod Size:</b>		AWJ		<b>Hammer Fall:</b>		30 in.		While Drilling	
								None Noted	
								23.9	
								None Noted	
								23.9	
								None Noted	
								out	
								caved @ 13.8	
								out	
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/7	1-3-6-8		Light Brown/Grey SILT, trace fine SAND, trace ROOTS (moist, stiff)		9
1									
2	2	2.0	4.0	SS/15	9-8-8-7		Light Brown SILT, trace fine SAND (moist, very stiff)		16
3									
4	3	4.0	6.0	SS/19	5-8-12-12		Light Brown SILT, trace fine SAND (moist, very stiff)		20
5									
6	4	6.0	8.0	SS/18	10-11-9-10		Light Brown SILT, trace fine SAND, trace cmf GRAVEL (moist, very stiff)		20
7									
8	5	8.0	10.0	SS/20	5-10-8-11		Light Grey SILT, trace fine SAND (moist, very stiff)		18
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/18	12-12-6		Similar as above (moist, very stiff)		18
15									
16									
17									
18									
19	7	18.5	20.0	SS/18	5-12-14		Grey SILT, little cmf GRAVEL, trace fine SAND (moist, very stiff)		26
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-151</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.5	23.9	SS/5	100@5"		Continued from Page 1		100+
21							Grey SILT, trace mf GRAVEL, trace fine SAND (moist, hard)		
22							Bottom of Boring @ 23.9'		
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

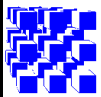
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>	<b>B-152</b>		
						<b>Page No.</b>	1 of 2		
						<b>Report No.</b>	28062B-03-1223		
<b>Project Name:</b>	Micron Campus, Clay, New York				<b>Date Started</b>	10/24/23			
<b>Client:</b>	Ramboll				<b>Date Finished</b>	10/24/23			
<b>Location:</b>	See Exploration Location Plan				<b>Surface Elev.</b>	402.9'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>	B. Fletcher	<b>Casing:</b>	3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b>	R. Casatelli	<b>Casing Hammer:</b>							
<b>Inspector:</b>		<b>Other:</b>	NQ-Core		10/24/23	While Drilling	23.2	23.5	
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	2" OD Split Barrel		10/24/23	Before Casing Removed	30.0	30.8	
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.		10/24/23	After Casing Removed	None Noted	out	
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.		10/24/23	After Casing Removed	caved @	out	
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	1.0	SS/17	1-4-8-8		Topsoil and Organic Material (moist)		4
1	1B	1.0	2.0				Light Brown SILT, trace fine SAND (moist, medium stiff)		
2	2	2.0	4.0	SS/18	7-8-7-7		Light Brown SILT, trace fine SAND (moist, very stiff)		15
3									
4	3	4.0	6.0	SS/20	4-7-10-13		Light Brown SILT, trace fine SAND (moist, very stiff)		17
5									
6	4	6.0	8.0	SS/19	13-12-12-8		Similar as above (moist, very stiff)		24
7									
8	5	8.0	10.0	SS/23	3-6-6-8		Light Brown/Light Grey SILT, trace fine SAND (moist, stiff)		12
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/18	4-7-16		Light Grey SILT, trace fine SAND (wet, very stiff)		23
15									
16									
17									
18									
19	7	18.5	20.0	SS/15	6-4-5		Light Grey SILT, little cmf GRAVEL, little fine SAND (moist, stiff)		9
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-152</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20	8	23.5	25.0	SS/7	15-15-18				Continued from Page 1
21									
22									
23									
24									
25	9	28.5	30.0	SS/10	31-45-58				Light Grey SILT and cmf GRAVEL/COBBLE pieces, little fine SAND (moist, hard)
26									
27									
28									
29									
30	<i>Auger refusal @ 30.8'</i>								
31	Bottom of Boring @ 30.8'								
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> B-153 <b>Page No.</b> 1 of 2 <b>Report No.</b> 28062B-03-1223					
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 10/26/23		<b>Client:</b> Ramboll		<b>Date Finished:</b> 10/26/23					
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 404.4'		<b>METHODS OF INVESTIGATION</b>							
<b>Driller:</b> B. Fletcher <b>Driller:</b> R. Casatelli <b>Inspector:</b> <b>Drill Rig:</b> CME 550X <b>Type:</b> ATV <b>Rod Size:</b> AWJ				<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> NQ-Core <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.				<b>GROUNDWATER OBSERVATIONS</b>			
		<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>			
		10/26/23		While Drilling		10.6		23.5			
		10/26/23		Before Casing Removed		10.6		23.5			
		10/26/23		After Casing Removed		6.5		out			
		10/26/23		After Casing Removed		caved @ 6.2		out			
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse		SPT "N" or RQD %		
		From	To				m - medium	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%			
0	1	0.0	2.0	SS/17	2-4-5-6		Light Brown SILT, trace fine SAND, trace ROOTS (moist, stiff)		9		
1											
2	2	2.0	4.0	SS/15	5-5-5-5		Light Brown SILT, trace fine SAND (moist, stiff)		10		
3											
4	3	4.0	6.0	SS/22	4-9-11-11		Light Brown SILT, trace fine SAND (moist, very stiff)		20		
5											
6	4	6.0	8.0	SS/24	8-10-7-8		Similar as above (moist, very stiff)		17		
7											
8	5	8.0	10.0	SS/22	4-7-6-6		Similar as above (moist, stiff)		13		
9											
10											
11											
12											
13											
14	6	13.5	15.0	SS/16	3-5-4		Light Grey SILT, trace fine SAND (moist, stiff)		9		
15											
16											
17											
18											
19	7	18.5	20.0	SS/14	4-15-4		Grey SILT, little cmf GRAVEL, little fine SAND (moist, very stiff)		19		
20							Continued on Page 2				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-153</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.5	24.8	SS/12	7-43-100@3"		Continued from Page 1		100+
21									
22									
23									
24							Dark Grey weathered ROCK fragments, little SILT (wet)		
25							Bottom of Boring @ 24.8'		
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-160</b>
<b>Page No.</b>	1 of 2
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	10/30/23
<b>Date Finished</b>	10/30/23
<b>Surface Elev.</b>	405.1'

<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	B. Fletcher	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	R. Casatelli	<b>Casing Hammer:</b>		10/30/23	While Drilling	21.7	28.5
<b>Inspector:</b>		<b>Other:</b>	NQ-Core	10/30/23	Before Casing Removed	21.7	28.5
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	2" OD Split Barrel	10/30/23	After Casing Removed	None Noted	out
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	10/30/23	After Casing Removed	caved @ 6.0	out
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/15	WH-1-2-3		Light Brown SILT, trace fine SAND, trace ROOTS (moist, soft)	3	
1									
2	2	2.0	4.0	SS/17	5-5-5-5		Light Brown SILT, trace fine SAND (moist, stiff)	10	
3									
4	3	4.0	6.0	SS/24	5-6-7-10		Light Brown SILT, trace fine SAND (moist, stiff)	13	
5									
6	4	6.0	8.0	SS/20	7-8-8-12		Similar as above (moist, very stiff)	16	
7									
8	5	8.0	10.0	SS/16	10-11-10-11		Light Brown/Light Grey SILT, trace fine SAND (moist, very stiff)	21	
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/12	10-11-14		Grey SILT, little cmf GRAVEL, trace fine SAND (moist, very stiff)	25	
15									
16									
17									
18									
19	7	18.5	20.0	SS/17	27-28-34		Similar as above (moist, hard)	62	
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-160</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**


**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20							Continued from Page 1		
21									
22									
23	8	23.5	25.0	SS/18	20-30-44		Similar as above (wet, hard)		74
24									
25									
26									
27									
28	9	28.5	30.0	SS/15	20-40-100@5"		Similar as above (moist, hard)		100+
29									
30							Bottom of Boring @ 30.0'		
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

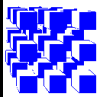
**Remarks:**



		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b>	<b>B-161</b>	
<b>Project Name:</b> Micron Campus, Clay, New York							<b>Page No.</b>	1 of 2	
<b>Client:</b> Ramboll							<b>Report No.</b>	28062B-03-1223	
<b>Location:</b> See Exploration Location Plan							<b>Date Started</b>	10/25/23	
							<b>Date Finished</b>	10/25/23	
							<b>Surface Elev.</b>	404.6'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> R. Casatelli		<b>Casing Hammer:</b>		10/25/23	While Drilling	None Noted	33.8		
<b>Inspector:</b>		<b>Other:</b> NQ-Core		10/25/23	Before Casing Removed	None Noted	-		
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		10/25/23	After Casing Removed	None Noted	out		
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		10/25/23	After Casing Removed	caved @	out		
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1	0.0	2.0	SS/11	2-4-6-8		Light Brown SILT, trace fine SAND, trace ROOTS (moist, stiff)	10	
1									
2	2	2.0	4.0	SS/20	7-7-8-8		Light Brown SILT, trace fine SAND (moist, very stiff)	15	
3									
4	3	4.0	6.0	SS/24	4-6-9-12		Light Brown SILT, trace fine SAND (moist, very stiff)	15	
5									
6	4	6.0	8.0	SS/23	12-12-13-10		Similar as above (moist, very stiff)	25	
7									
8	5	8.0	10.0	SS/23	5-7-8-7		Similar as above (moist, very stiff)	15	
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/16	5-4-7		Light Grey SILT, trace fine SAND (moist, stiff)	11	
15									
16									
17									
18									
19	7	18.5	20.0	SS/7	15-4-8		Light Grey/Light Brown SILT, little cmf GRAVEL, little fine SAND (moist, stiff)	12	
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-161</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20							Continued from Page 1		
21									
22									
23	8	23.5	25.0	SS/14	1-2-9		Light Grey SILT, little cmf GRAVEL, little fine SAND (moist, stiff)		11
24									
25									
26									
27									
28	9	28.5	29.8	SS/15	95-72-100@4"		<i>Augers harder beginning @ 28.5'</i> Light Grey SILT, little cmf GRAVEL, trace fine SAND (moist, hard)		100+
29									
30									
31									
32									
33	10	33.5	33.8	SS/9	100@3"		Similar as above (moist, hard) Bottom of Boring @ 33.8'		100+
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No. B-162</b> <b>Page No. 1 of 2</b> <b>Report No. 28062B-03-1223</b>					
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 10/26/23		<b>Client:</b> Ramboll		<b>Date Finished:</b> 10/26/23					
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 401.3'		<b>METHODS OF INVESTIGATION</b>							
<b>Driller:</b> B. Fletcher <b>Driller:</b> R. Casatelli <b>Inspector:</b> <b>Drill Rig:</b> CME 550X <b>Type:</b> ATV <b>Rod Size:</b> AWJ				<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> NQ-Core <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.				<b>GROUNDWATER OBSERVATIONS</b>			
		<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>			
		10/26/23		While Drilling		22.1		23.5			
		10/26/23		Before Casing Removed		22.1		23.5			
		10/26/23		After Casing Removed		None Noted		out			
		10/26/23		After Casing Removed		caved @ 9.0		out			
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %	
		From	To								
0	1A	0.0	1.0	SS/16	1-2-4-7		Topsoil and Organic Material (moist)		6		
1	1B	1.0	2.0				Light Brown SILT, trace fine SAND (moist, medium stiff)				
2	2	2.0	4.0	SS/24	8-7-8-7		Light Brown SILT, trace fine SAND (moist, very stiff)		15		
3											
4	3	4.0	6.0	SS/20	4-6-8-9		Light Brown SILT, trace fine SAND (moist, stiff)		14		
5											
6	4	6.0	8.0	SS/20	8-9-8-16		Light Brown/Light Grey SILT, trace fine SAND (moist, very stiff)		17		
7											
8	5	8.0	10.0	SS/17	3-3-3-6		Light Grey SILT, trace fine SAND (moist, medium stiff)		6		
9											
10											
11											
12											
13											
14	6	13.5	15.0	SS/15	6-6-5		Similar as above (moist, stiff)		11		
15											
16											
17											
18											
19	7	18.5	20.0	SS/7	3-3-3		Light Grey SILT, trace fine GRAVEL, trace fine SAND (moist, medium stiff)		6		
20							Continued on Page 2				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



6035 Corporate Drive  
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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-162</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.5	25.0	SS/12	17-52-65		Continued from Page 1		117
21									
22									
23									
24							Dark Grey weathered ROCK fragments, little SILT (moist)		
25	Bottom of Boring @ 25.0'								
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-163	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-03-1223
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll			<b>Location:</b> See Exploration Location Plan		<b>Date Started</b> 10/25/23	<b>Date Finished</b> 10/25/23	<b>Surface Elev.</b> 400.5'
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher <b>Driller:</b> R. Casatelli <b>Inspector:</b> <b>Drill Rig:</b> CME 550X <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> NQ-Core <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				10/25/23	While Drilling	5.6	18.5		
				10/25/23	Before Casing Removed	None Noted	-		
				10/25/23	After Casing Removed	None Noted	out		
				10/25/23	After Casing Removed	caved @	out		
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> <b>From</b> <b>To</b>		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse</b> <b>m - medium</b> <b>f - fine</b>	<b>and - 35 to 50% / some - 20 to 35%</b> <b>little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1A	0.0	1.0	SS/16	WH-WH-2-4		Topsoil and Organic Matter (moist)		2
1	1B	1.0	2.0				Light Brown SILT, trace fine SAND (moist, soft)		
2	2	2.0	4.0	SS/18	4-6-5-5		Light Brown SILT, trace fine SAND (moist, stiff)		11
3									
4	3	4.0	6.0	SS/17	3-4-5-7		Light Brown SILT, trace fine SAND (moist, stiff)		9
5									
6	4	6.0	8.0	SS/19	4-5-12-12		Light Grey SILT, trace fine SAND (moist, very stiff)		17
7									
8	5	8.0	10.0	SS/17	2-1-4-4		Light Grey SILT, trace fine SAND (moist, medium stiff)		5
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/13	5-3-3		Light Grey SILT, trace fine SAND (moist, medium stiff)		6
15									
16									
17									
18									
19	7	18.5	20.0	SS/16	8-15-20		Dark Grey weathered ROCK fragments, little SILT (wet)		35
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-163</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20							Continued from Page 1		
21									
22							<i>Auger refusal @ 22.0'</i>		
23							Bottom of Boring @ 22.0'		
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

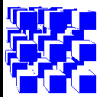
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> B-164			
						Page No.		1 of 2	
						Report No.		28062B-03-1223	
<b>Project Name:</b> Micron Campus, Clay, New York						<b>Date Started</b> 10/26/23			
<b>Client:</b> Ramboll						<b>Date Finished</b> 10/26/23			
<b>Location:</b> See Exploration Location Plan						<b>Surface Elev.</b> 402.6'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>	B. Fletcher	<b>Casing:</b>	3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b>	R. Casatelli	<b>Casing Hammer:</b>							
<b>Inspector:</b>		<b>Other:</b>	NQ-Core		10/26/23	While Drilling	13.9	23.5	
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	2" OD Split Barrel		10/26/23	Before Casing Removed	13.9	23.5	
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.		10/26/23	After Casing Removed	None Noted	out	
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.		10/26/23	After Casing Removed	caved @ 5.0	out	
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1	0.0	2.0	SS/16	1-2-2-4		Light Brown SILT, trace fine SAND, trace ROOTS (moist, medium stiff)		4
1									
2	2	2.0	4.0	SS/17	4-4-4-3		Light Brown SILT, trace fine SAND (moist, stiff)		8
3									
4	3	4.0	6.0	SS/15	1-2-4-6		Light Brown SILT, trace fine SAND (moist, medium stiff)		6
5									
6	4	6.0	8.0	SS/23	6-6-7-9		Light Brown SILT, trace fine SAND, trace cm GRAVEL (moist, very stiff)		13
7									
8	5	8.0	10.0	SS/24	4-6-13-16		Light Brown SILT, trace fine SAND, trace mf GRAVEL (moist, very stiff)		19
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/18	3-2-2		Light Grey SILT, trace fine SAND (moist, medium stiff)		4
15									
16									
17									
18									
19	7	18.5	20.0	SS/7	4-11-13		Dark Grey weathered ROCK fragments, little SILT (wet)		24
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-164</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.5	24.3	SS/7	18-100@3"		Continued from Page 1		100+
21									
22									
23									
24							Dark Grey weathered ROCK fragments, little SILT (moist)		
25							Bottom of Boring @ 24.3'		
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**





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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-206</b>
<b>Page No.</b>	1 of 2
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	09/14/23
<b>Date Finished</b>	09/14/23
<b>Surface Elev.</b>	390.7'

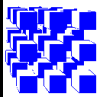
<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	Brian Swartz	<b>Casing:</b>	4 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	Jason Ersing	<b>Casing Hammer:</b>		09/14/23	While Drilling	None Noted	
<b>Inspector:</b>	Astitwa Sharma, EIT	<b>Other:</b>		09/14/23	Before Casing Removed	11.9	24.3
<b>Drill Rig:</b>	CME LC 55	<b>Soil Sampler:</b>	2" OD Split Barrel	09/14/23	After Casing Removed	6.9	out
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.	09/14/23	After Casing Removed	caved @ 8.6	out
<b>Rod Size:</b>	NWJ	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/10	WH-1-3-5		Brown mottled SILT, little fine SAND, trace ROOTS (moist, medium stiff)	4	
1									
2	2	2.0	4.0	SS/19	5-5-5-4		Brown mottled SILT, little CLAY, trace fine SAND (wet, stiff)	10	
3									
4	3	4.0	6.0	SS/15	1-1-3-4		Similar as above (wet, medium stiff)	4	
5									
6	4	6.0	8.0	SS/18	4-3-5-7		Similar as above (wet, stiff)	8	
7									
8	5	8.0	10.0	SS/21	2-3-3-10		Brown SILT, little CLAY (wet, medium stiff)	6	
9									
10									
11									
12									
13	6	13.0	15.0	SS/24	WH-WH-WH-2		Grey CLAY and SILT (wet, very soft)	0	
14									
15									
16									
17									
18	7	18.0	20.0	SS/17	10-11-10-13		Grey cmf SAND, some fine GRAVEL, trace SILT, trace CLAY (wet, medium compact)	21	
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-206</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	22.0	23.8	SS/16	63-65-72-100@4"		Continued from Page 1		137
21									
22							Grey ROCK chips and fragments, little SILT (wet)		
23									
24							<i>Auger refusal @ 24.3'</i>		
25							Bottom of Boring @ 24.3'		
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



6035 Corporate Drive  
 East Syracuse, NY 13057  
 Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-206A</b>
<b>Page No.</b>	1 of 1
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	10/11/23
<b>Date Finished</b>	10/11/23
<b>Surface Elev.</b>	390.7'


<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	A. Linstruth	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	J. Winks	<b>Casing Hammer:</b>		10/11/23	While Drilling		
<b>Inspector:</b>		<b>Other:</b>		10/11/23	Before Casing Removed		
<b>Drill Rig:</b>	CME LC 55	<b>Soil Sampler:</b>	2" OD Split Barrel	10/11/23	After Casing Removed		out
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	10/11/23	After Casing Removed	caved @	out
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0									
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12	1	12.0	14.0	SS/12			No Recovery See Remark 1		
13									
14	2	14.0	16.0	U/23			Shelby Tube Sample		
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. No recovery with a 2" spoon; therefore a 3" spoon was utilized

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>	<b>B-207</b>		
						<b>Page No.</b>	1 of 2		
						<b>Report No.</b>	28062B-03-1223		
<b>Project Name:</b>	Micron Campus, Clay, New York				<b>Date Started</b>	09/13/23			
<b>Client:</b>	Ramboll				<b>Date Finished</b>	09/13/23			
<b>Location:</b>	See Exploration Location Plan				<b>Surface Elev.</b>	389.9'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>	Brian Swartz	<b>Casing:</b>	4 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b>	Jason Ersing	<b>Casing Hammer:</b>							09/13/23
<b>Inspector:</b>	Astitwa Sharma, EIT	<b>Other:</b>			09/13/23	Before Casing Removed	1.0	23.1	
<b>Drill Rig:</b>	CME LC 55	<b>Soil Sampler:</b>	2" OD Split Barrel		09/13/23	After Casing Removed	7.7	out	
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.		09/13/23	After Casing Removed	caved @ 20.0	out	
<b>Rod Size:</b>	NWJ	<b>Hammer Fall:</b>	30 in.						
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1	0.0	2.0	SS/17	WH-WH-2-3		Brown mottled SILT, little CLAY, trace fine SAND, trace ROOTS (wet, soft)		2
1									
2	2	2.0	4.0	SS/24	5-5-5-6		Brown mottled SILT, trace CLAY, trace cmf SAND, trace fine GRAVEL (moist, stiff)		10
3									
4	3	4.0	6.0	SS/23	1-1-3-3		Brown mottled SILT, little CLAY, trace fine SAND (moist, medium stiff)		4
5									
6	4	6.0	8.0	SS/14	5-8-7-8		Similar as above (wet, stiff) <i>PP = 1, 0.75, 0.75</i>		15
7									
8	5	8.0	10.0	SS/10	1-4-4-5		Brown SILT, little CLAY, trace fine SAND, trace fine GRAVEL (wet, stiff)		8
9									
10									
11									
12									
13	6	13.0	15.0	SS/9	1-1-2-3		Grey SILT, little CLAY, trace cmf SAND, trace fine GRAVEL (wet, soft)		3
14									
15									
16									
17									
18	7	18.0	20.0	SS/6	27-69-14-3		Grey CLAY and SILT, some cmf SAND, some mf GRAVEL (wet, hard)		83
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod  
 PP - Pocket Penetrometer Results in tsf

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-207</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.0	23.1	SS/1	100@1"		Continued from Page 1		100+
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>		<b>B-209</b>	
						Page No.		1 of 1	
						Report No.		28062B-03-1223	
<b>Project Name:</b>		Micron Campus, Clay, New York				<b>Date Started</b>		09/13/23	
<b>Client:</b>		Ramboll				<b>Date Finished</b>		09/13/23	
<b>Location:</b>		See Exploration Location Plan				<b>Surface Elev.</b>		391.0'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>		Brian Swartz		<b>Casing:</b>		4 1/4" ID H.S.A.		<b>Date</b>	
<b>Driller:</b>		Jason Ersing		<b>Casing Hammer:</b>				<b>Time</b>	
<b>Inspector:</b>		Astitwa Sharma, EIT		<b>Other:</b>				<b>Depth (Ft.)</b>	
<b>Drill Rig:</b>		CME LC 55		<b>Soil Sampler:</b>		2" OD Split Barrel		<b>Casing At (Ft.)</b>	
<b>Type:</b>		Track		<b>Hammer Wt:</b>		140 lbs.		09/13/23	
<b>Rod Size:</b>		NWJ		<b>Hammer Fall:</b>		30 in.		While Drilling	
								None Noted	
								None Noted	
								None Noted	
								out	
								caved @ 12.5'	
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse		SPT "N" or RQD %
		From	To				m - medium	and - 35 to 50% / some - 20 to 35%	
							f - fine	little - 10 to 20% / trace - 0 to 10%	
0	1	0.0	2.0	SS/19	WH-2-3-5		Brown SILT, trace CLAY, trace fine SAND, trace ROOTS (moist, medium stiff)		5
1									
2	2	2.0	4.0	SS/15	4-3-3-3		Brown SILT, trace cmf SAND, trace CLAY, trace fine GRAVEL (wet, medium stiff)		6
3									
4	3	4.0	6.0	SS/14	2-2-6-12		Grey/Brown mottled SILT, some cmf SAND, little mf GRAVEL (wet, stiff)		8
5									
6	4	6.0	8.0	SS/9	11-22-27-23		Grey/Brown cmf SAND and mf GRAVEL, some SILT, little CLAY (wet, compact)		49
7									
8	5	8.0	10.0	SS/10	16-20-21-22		Grey/Brown cmf GRAVEL, some cmf SAND, little SILT (moist, compact)		41
9									
10									
11									
12									
13	6	13.0	15.0	SS/13	39-29-51-61		Grey cmf SAND and mf GRAVEL, little SILT, little CLAY (wet, very compact)		80
14									
15									
16									
17	7	17.0	17.1	SS/1	100@1"		Grey ROCK chips and fragments		100+
18							Bottom of Boring @ 17.1'		
19									
20									

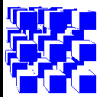
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> B-212			
						Page No.		1 of 2	
						Report No.		28062B-03-1223	
<b>Project Name:</b> Micron Campus, Clay, New York						<b>Date Started</b> 09/13/23			
<b>Client:</b> Ramboll						<b>Date Finished</b> 09/13/23			
<b>Location:</b> See Exploration Location Plan						<b>Surface Elev.</b> 386.8'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> Brian Swartz		<b>Casing:</b> 4 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>			
<b>Driller:</b> Jason Ersing		<b>Casing Hammer:</b>		09/13/23		While Drilling			
<b>Inspector:</b> Astitwa Sharma, EIT		<b>Other:</b>		09/13/23		Before Casing Removed			
<b>Drill Rig:</b> CME LC 55		<b>Soil Sampler:</b> 2" OD Split Barrel		09/13/23		After Casing Removed			
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		09/13/23		After Casing Removed			
<b>Rod Size:</b> NWJ		<b>Hammer Fall:</b> 30 in.				caved @ 23.3			
						out			
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1	0.0	2.0	SS/18	WH-1-2-3		Brown SILT, little CLAY, trace fine SAND, trace ROOTS (wet, soft)		3
1									
2	2	2.0	4.0	SS/24	2-3-3-4		Brown mottled SILT, little CLAY, trace fine SAND (wet, medium stiff)		6
3									
4	3	4.0	6.0	SS/20	WH-1-1-3		Brown SILT, some CLAY, trace cmf SAND (wet, soft)		2
5									
6	4	6.0	8.0	SS/15	4-5-6-6		Brown mottled SILT, little CLAY (wet, stiff)		11
7									
8	5	8.0	10.0	SS/17	1-2-3-4		Brown mottled SILT and CLAY (wet, medium stiff)		5
9									
10									
11									
12									
13	6	13.0	15.0	SS/11	1-2-2-3		Grey CLAY and SILT (wet, medium stiff)		4
14									
15									
16									
17									
18	7	18.0	20.0	SS/12	1-2-3-5		Similar as above (wet, medium stiff)		5
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-212</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**


**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20							Continued from Page 1		
21									
22									
23	8	23.0	24.6		19-11-51-100@1"		Dark Grey weathered ROCK fragments, little SILT, little cmf SAND, trace mf GRAVEL (wet)		62
24									
25							<i>Auger refusal @ 25.0'</i>		
26							Bottom of Boring @ 25.0'		
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

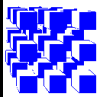
**Remarks:**



 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> B-213			
						Page No.		1 of 2	
						Report No.		28062B-03-1223	
<b>Project Name:</b> Micron Campus, Clay, New York						<b>Date Started</b> 10/04/23			
<b>Client:</b> Ramboll						<b>Date Finished</b> 10/04/23			
<b>Location:</b> See Exploration Location Plan						<b>Surface Elev.</b> 387.3'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>	A. Linstruth	<b>Casing:</b>	3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b>	D. MacDougal	<b>Casing Hammer:</b>							
<b>Inspector:</b>	Astitwa Sharma, EIT	<b>Other:</b>			10/04/23	While Drilling	15.8	18.5	
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	2" OD Split Barrel		10/04/23	Before Casing Removed	23.4	24.4	
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.		10/04/23	After Casing Removed	None Noted	out	
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.		10/04/23	After Casing Removed	caved @ 9.0	out	
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1	0.0	2.0	SS/16	1-3-6-7		Grey/Brown SILT, trace fine SAND, trace ROOTS (moist, stiff)		9
1									
2	2	2.0	4.0	SS/15	4-6-5-5		Brown SILT, trace fine SAND, trace CLAY (wet, stiff)		11
3									
4	3	4.0	6.0	SS/24	4-3-3-3		Similar as above (wet, medium stiff)		6
5									
6	4	6.0	8.0	SS/22	4-3-4-4		Brown SILT, trace fine SAND (wet, medium stiff)		7
7									
8	5	8.0	10.0	SS/19	3-4-4-6		Brown SILT, trace mf SAND (wet, stiff)		8
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/16	2-2-3		Grey CLAY and SILT (wet, medium stiff)		5
15									
16							<i>Augered gravelly between 16' to 17'</i>		
17									
18									
19	7	18.5	20.0	SS/5	5-3-4		Grey cmf SAND, some SILT, some mf GRAVEL, trace CLAY (wet, loose)		7
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-213</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.5	24.3	SS/6	23-100@4"		Continued from Page 1		100+
21									
22									
23									
24							Grey cmf SAND, some SILT, some mf GRAVEL (wet, very compact). <i>Auger refusal @ 24.4'</i>		
25							Bottom of Boring @ 24.4'		
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-216 <b>Page No.</b> 1 of 2 <b>Report No.</b> 28062B-03-1223					
<b>Project Name:</b>	Micron Campus, Clay, New York			<b>Date Started</b>	09/12/23				
<b>Client:</b>	Ramboll			<b>Date Finished</b>	09/12/23				
<b>Location:</b>	See Exploration Location Plan			<b>Surface Elev.</b>	385.8'				
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b>	Brian Swartz	<b>Casing:</b>	4 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b>	Jason Ersing	<b>Casing Hammer:</b>		09/07/23	While Drilling	None Noted	6.0		
<b>Inspector:</b>	Astitwa Sharma, EIT	<b>Other:</b>		09/07/23	Before Casing Removed	12.0	20.8		
<b>Drill Rig:</b>	CME LC 55	<b>Soil Sampler:</b>	2" OD Split Barrel	09/07/23	After Casing Removed	6.8	out		
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.	09/07/23	After Casing Removed	caved @ 17.0	out		
<b>Rod Size:</b>	NWJ	<b>Hammer Fall:</b>	30 in.						
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/19	WH-1-2-3		Brown mottled SILT, little mf SAND, trace ROOTS (moist, soft)		3
1									
2	2	2.0	4.0	SS/22	6-4-5-5		Brown SILT, little CLAY, trace fine SAND (wet, stiff)		9
3									
4	3	4.0	6.0	SS/20	1-2-3-4		Brown SILT, little CLAY, trace fine SAND (wet, medium stiff)		5
5									
6	4	6.0	8.0	SS/14	3-4-4-6		Brown mottled SILT, trace CLAY, trace fine SAND (wet, stiff)		8
7									
8	5	8.0	10.0	SS/16	2-4-5-4		Brown mottled SILT, trace fine SAND, trace mf GRAVEL (wet, stiff)		9
9									
10									
11									
12									
13	6	13.0	15.0	SS/21	WH-1-1-1		Grey CLAY and SILT (wet, soft)		2
14									
15									
16									
17									
18	7	18.0	20.0	SS/8	5-4-17-11		Grey cmf SAND and mf GRAVEL, trace SILT, trace CLAY (wet, medium compact)		21
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-216</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	20.8	21.0	SS/3	100@3"		Continued from Page 1 <i>Auger refusal @ 20.8'</i>		100+
21							Grey ROCK chips and fragments, trace SILT, trace cmf SAND, trace fine GRAVEL (wet)		
22							Bottom of Boring @ 21.0'		
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-217 <b>Page No.</b> 1 of 2 <b>Report No.</b> 28062B-03-1223
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 10/04/23			<b>Surface Elev.</b> 387.8'
<b>Client:</b> Ramboll		<b>Date Finished:</b> 10/04/23			
<b>Location:</b> See Exploration Location Plan					
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>	
<b>Driller:</b> A. Linstruth		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>
<b>Driller:</b> D. MacDougal		<b>Casing Hammer:</b>		10/04/23	While Drilling
<b>Inspector:</b> Astitwa Sharma, EIT		<b>Other:</b> NQ-Core		10/04/23	Before Casing Removed
<b>Drill Rig:</b> CME 55		<b>Soil Sampler:</b> 2" OD Split Barrel		10/04/23	After Casing Removed
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		10/04/23	After Casing Removed
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.			caved @ 12.0
					out
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>	
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches
0	1A	0.0	0.6	SS/16	1-1-4-5
1	1B	0.6	2.0		
2	2	2.0	4.0	SS/19	3-4-5-4
3					
4	3	4.0	6.0	SS/24	1-2-3-3
5					
6	4	6.0	8.0	SS/24	4-5-4-6
7					
8	5	8.0	10.0	SS/24	2-3-5-6
9					
10					
11					
12					
13					
14	6	13.5	15.0	SS/18	2-2-2
15					
16					
17					
18					
19	7	18.5	20.0	SS/18	7-13-10
20					
				Continued on Page 2	

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-217</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20							Continued from Page 1		
21	8	21.9	21.9	SS/0	100@0"		<i>Auger refusal @ 21.9'</i> <i>No Recovery</i>		100+
22	R1	21.9	26.9	C/59	NQ-Core		Dark Grey/Black DOLOSTONE with interbedded Shale layers throughout (<1/8" to 1/2" thick), moderately weathered, laminated to thinly bedded. Broken zones @ 21.9' to 22.8', 24.5' to 25.1' and 26.1' to 26.9'. Recovery: 59"/60" = 98% RQD: 22"/60" = 37%		37%
23							12 Pieces, 10" Chips and Fragments <i>3 min/ft, water loss - no return water</i>		
24							<i>Coring conducted in 5th gear, 2100 rpm, 600 psi down pressure.</i>		
25							26.9' to 29.4'; Dark Grey/Black SHALE, slightly weathered, laminated to thinly bedded, medium hard. Recovery: 60"/60" = 100%   RQD: 30"/60" = 50%		50%
26	R2	26.9	31.9	C/60	NQ-Core		<i>3 min/ft, water loss - no return water</i>		
27							<i>Coring conducted in 5th gear, 2100 rpm, 650 psi down pressure.</i>		
28							29.4' to 31.9'; Dark Grey/Black DOLOSTONE with interbedded SHALE layers (<1/8' to 1 1/2" thick). Slightly weathered, thinly bedded, hard. Vertical break from 30.4' to 31.9'.		
29									
30									
31									
32							Bottom of Boring @ 31.9'		
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

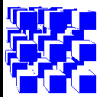
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>	<b>B-218</b>		
						<b>Page No.</b>	1 of 2		
						<b>Report No.</b>	28062B-03-1223		
<b>Project Name:</b>	Micron Campus, Clay, New York				<b>Date Started</b>	09/12/23			
<b>Client:</b>	Ramboll				<b>Date Finished</b>	09/12/23			
<b>Location:</b>	See Exploration Location Plan				<b>Surface Elev.</b>	386.4'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>	Brian Swartz	<b>Casing:</b>	4 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b>	Jason Ersing	<b>Casing Hammer:</b>			09/12/23	While Drilling	None Noted	6.0	
<b>Inspector:</b>	Astitwa Sharma, EIT	<b>Other:</b>			09/12/23	Before Casing Removed	8.0	25.5	
<b>Drill Rig:</b>	CME LC 55	<b>Soil Sampler:</b>	2" OD Split Barrel		09/12/23	After Casing Removed	7.0	out	
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.		09/12/23	After Casing Removed	caved @ 16.0	out	
<b>Rod Size:</b>	NWJ	<b>Hammer Fall:</b>	30 in.						
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1	0.0	2.0	SS/24	WH-1-3-5		Brown SILT, little CLAY, trace mf SAND, trace ROOTS (moist, medium stiff)		4
1									
2	2	2.0	4.0	SS/24	1-5-6-7		Brown mottled SILT and CLAY, trace fine SAND (wet, stiff)		11
3									
4	3	4.0	6.0	SS/21	1-2-2-2		Similar as above (wet, medium stiff)		4
5									
6	4	6.0	8.0	SS/17	4-4-4-3		Brown SILT, little CLAY, trace cmf SAND (wet, stiff)		8
7									
8	5	8.0	10.0	SS/15	2-3-4-5		Brown SILT, little fine SAND (wet, medium stiff)		7
9									
10									
11									
12									
13	6	13.0	15.0	SS/14	1-1-1-1		Grey CLAY and SILT, trace fine SAND (wet, soft)		2
14									
15									
16									
17									
18	7	18.0	20.0	SS/6	5-5-5-6		Grey cmf SAND, some mf GRAVEL, little SILT, trace CLAY (wet, medium compact) <i>See Remark 1</i>		10
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Sampling not feasible between 23.0' and 25.0' due to blowing sand conditions.



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-218</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**


**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20							Continued from Page 1		
21									
22									
23									
24									
25							<i>Auger refusal @ 25.5'</i>		
26							Bottom of Boring at 25.5'		
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

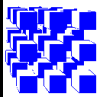
**Remarks:**



 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> B-224			
						Page No.		1 of 2	
						Report No.		28062B-03-1223	
<b>Project Name:</b> Micron Campus, Clay, New York						<b>Date Started</b> 10/03/23			
<b>Client:</b> Ramboll						<b>Date Finished</b> 10/03/23			
<b>Location:</b> See Exploration Location Plan						<b>Surface Elev.</b> 389.5'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> A. Linstruth		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>			
<b>Driller:</b> D. MacDougal		<b>Casing Hammer:</b>		10/03/23		While Drilling			
<b>Inspector:</b> Astitwa Sharma, EIT		<b>Other:</b>		10/03/23		Before Casing Removed			
<b>Drill Rig:</b> CME 55		<b>Soil Sampler:</b> 2" OD Split Barrel		10/03/23		After Casing Removed			
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		10/03/23		After Casing Removed			
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.				caved @ 7.9			
						out			
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/16	1-2-5-6		Topsoil and Organic Matter, trace Roots (moist)		7
	1B	0.5	2.0				Brown mottled SILT, trace fine SAND (moist, medium stiff)		
1									
2	2	2.0	4.0	SS/21	4-5-6-6		Similar as above (moist, stiff)		11
3									
4	3	4.0	6.0	SS/17	7-4-4-4		Brown mottled SILT, little mf GRAVEL, trace cmf SAND (wet, stiff)		8
5									
6	4	6.0	8.0	S/11	2-4-5-6		Brown mottled SILT, some cmf SAND, little mf GRAVEL (wet, stiff)		9
7									
8	5	8.0	10.0	SS/17	3-14-23-14		Brown mottled SILT and cmf SAND, little mf GRAVEL (moist, hard)		37
9									
10									
11									
12									
13									
14	6A	13.5	14.5	SS/18	10-17-18		Brown mottled SILT and cmf SAND, little mf GRAVEL (moist, hard)		35
	6B	14.5	15.0				Grey SILT and cmf SAND, little fine GRAVEL (moist, hard)		
15									
16									
17									
18									
19	7	18.5	20.0	SS/18	34-40-47		Similar as above (moist, hard)		87
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-224</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	22.9	22.9	SS/0	100@0"		Continued from Page 1		100+
21									
22							<i>Auger refusal @ 22.9</i>		
23							<i>No Recovery</i>		
24							<i>Bottom of Boring @ 22.9'</i>		
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
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45									

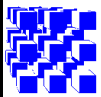
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No. B-242</b> <b>Page No. 1 of 2</b> <b>Report No. 28062B-03-1223</b>			
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 11/15/23		<b>Client:</b> Ramboll		<b>Date Finished:</b> 11/15/23			
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 392.7'		<b>METHODS OF INVESTIGATION</b>					
<b>Driller:</b> G. Richards <b>Casing:</b> 3 1/4" ID H.S.A. <b>Driller:</b> C. O'Hara <b>Casing Hammer:</b> <b>Inspector:</b> <b>Other:</b> NQ-Core <b>Drill Rig:</b> CME 55 <b>Soil Sampler:</b> 2" OD Split Barrel <b>Type:</b> ATV <b>Hammer Wt:</b> 140 lbs. <b>Rod Size:</b> AWJ <b>Hammer Fall:</b> 30 in.				<b>GROUNDWATER OBSERVATIONS</b>					
				<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				11/15/23	While Drilling	4.7	19.0		
				11/15/23	Before Casing Removed	8.0	24.7		
				11/15/23	After Casing Removed	4.5	out		
				11/15/23	After Casing Removed	caved @ 7.2	out		
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/14	WH-1-2-4		Brown/Grey SILT, little CLAY, trace mf SAND, trace ROOTS (moist, soft)		3
1									
2	2	2.0	4.0	SS/18	4-3-4-3		Brown/Grey SILT, little CLAY (moist, medium stiff)		7
3									
4	3	4.0	6.0	SS/15	3-3-4-4		Brown SILT, trace CLAY (wet, medium stiff)		7
5									
6	4	6.0	8.0	SS/13	3-4-4-7		Similar as above (wet, stiff)		8
7									
8	5	8.0	10.0	SS/14	3-3-5-5		Similar as above (wet, stiff)		8
9									
10									
11									
12									
13									
14	6	14.0	16.0	SS/10	4-7-5-3		Brown/Grey SILT, little CLAY, little cmf SAND, trace fine GRAVEL (wet, stiff)		12
15									
16									
17									
18									
19	7	19.0	21.0	SS/10	4-8-3-7		Dark Brown mf GRAVEL, some cmf SAND, trace SILT (wet, medium compact)		11
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-242</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	24.7	24.9	SS/1	50@1"		Continued from Page 1		50+
21									
22									
23									
24									
25							Grey ROCK fragements <i>Auger refusal @ 24.9'</i>		
26							Bottom of Boring @ 24.9'		
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-245</b>
<b>Page No.</b>	1 of 2
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	10/23/23
<b>Date Finished</b>	10/23/23
<b>Surface Elev.</b>	392.4'

<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	B. Fletcher	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	R. Casatelli	<b>Casing Hammer:</b>		10/23/23	While Drilling	23.0	23.5
<b>Inspector:</b>		<b>Other:</b>	NQ-Core	10/23/23	Before Casing Removed	23.0	24.1
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	2" OD Split Barrel	10/23/23	After Casing Removed	None Noted	out
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	10/23/23	After Casing Removed	caved @ 2.0'	out
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5	SS/16	11-2-3-4		Topsoil and Organic Material (moist)		5
1	1B	0.5	2.0				Light Brown SILT, some CLAY (moist, medium stiff)		
2	2	2.0	4.0	SS/17	4-5-6-5		Light Brown SILT, trace CLAY, trace fine SAND (moist, stiff)		11
3									
4	3	4.0	6.0	SS/24	3-6-7-7		Light Brown SILT, trace fine SAND (moist, stiff)		13
5									
6	4	6.0	8.0	SS/19	5-7-6-6		Light Brown SILT, trace fine SAND (moist, stiff)		13
7									
8	5	8.0	10.0	SS/20	4-4-5-7		Similar as above (moist, stiff)		9
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/16	1-2-2		Light Grey SILT, trace fine SAND (wet, medium stiff)		4
15									
16									
17									
18									
19	7	18.5	20.0	SS/10	3-6-9		Grey SILT, little mf GRAVEL, little fine SAND (wet, very stiff)		15
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-245</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.5	24.1	SS/6	14-100@1"		Continued from Page 1		100+
21									
22									
23									
24							Grey SILT and weathered ROCK fragments, little cmf GRAVEL, trace fine SAND (wet, hard) <i>Auger refusal @ 24.1'</i>		
25	Bottom of Boring @ 24.1'								
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

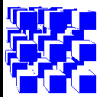
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No. B-251</b> <b>Page No. 1 of 2</b> <b>Report No. 28062B-03-1223</b>						
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 10/19/23			<b>Surface Elev.:</b> 392.5'						
<b>Client:</b> Ramboll		<b>Date Finished:</b> 10/19/23									
<b>Location:</b> See Exploration Location Plan											
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>							
<b>Driller:</b> J. Winks		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date:</b>		<b>Time:</b>		<b>Depth (Ft.):</b>		<b>Casing At (Ft.):</b>	
<b>Driller:</b> R. Casatelli		<b>Casing Hammer:</b>		10/19/23		While Drilling		11.3		13.5	
<b>Inspector:</b>		<b>Other:</b>		10/19/23		Before Casing Removed		17.9		23	
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		10/19/23		After Casing Removed		10.0		out	
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		10/19/23		After Casing Removed		caved @ 13.3		out	
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.									
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
		From	To				m - medium f - fine				
0	1	0.0	2.0	SS/14	2-3-5-8		Light Brown/Grey SILT, trace fine SAND, trace ROOTS (moist, stiff)				8
1											
2	2	2.0	4.0	SS/19	7-8-11-12		Light Brown/Grey SILT, trace fine SAND (moist, very stiff)				19
3											
4	3	4.0	6.0	SS/16	5-4-3-3		Light Brown SILT, trace fine SAND (moist, medium stiff)				7
5											
6	4	6.0	8.0	SS/20	2-3-4-4		Light Brown SILT, trace fine SAND (moist, medium stiff)				7
7											
8	5	8.0	10.0	SS/19	4-5-10-8		Similar as above (moist, very stiff)				15
9											
10											
11											
12											
13											
14	6	13.5	15.0	SS/15	4-3-3		Light Brown SILT, trace fine GRAVEL, trace fine SAND (wet, medium stiff)				6
15							<i>Augered gravelly beginning @ 15.0'</i>				
16											
17											
18											
19	7	18.5	20.0	SS/14	7-5-7		Grey SILT, little mf GRAVEL, little mf SAND (moist, stiff)				12
20							Continued on Page 2				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-251</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**


**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.0	23.0	SS/0	100@0"		Continued from Page 1		100+
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-260	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-03-1223		
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll			<b>Date Started</b> 10/19/23	<b>Date Finished</b> 10/19/23	<b>Surface Elev.</b> 392.6'		
<b>Location:</b> See Exploration Location Plan		<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>			
<b>Driller:</b> J. Winks <b>Driller:</b> R. Casatelli <b>Inspector:</b> <b>Drill Rig:</b> CME 550X <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				10/19/23	While Drilling	19.2	24.1		
				10/19/23	Before Casing Removed	19.2	24.1		
				10/19/23	After Casing Removed	12.2	out		
				10/19/23	After Casing Removed	caved @ 12.9	out		
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse</b> <b>m - medium</b> <b>f - fine</b>	<b>and - 35 to 50% / some - 20 to 35%</b> <b>little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1A	0.0	0.5	SS/19	1-4-5-8	0.5	Topsoil and Organic Matter (moist)		9
1	1B	0.5	2.0				Light Brown/Light Grey SILT, trace CLAY, trace fine SAND (moist, stiff)		
2	2	2.0	4.0	SS/17	7-8-8-6		Light Brown/Light Grey SILT, trace CLAY, trace fine SAND (moist, very stiff)		16
3									
4	3	4.0	6.0	SS/18	5-5-4-4		Light Brown/Light Grey SILT, trace fine SAND, trace CLAY (moist, stiff)		9
5									
6	4	6.0	8.0	SS/19	4-4-4-4		Light Brown SILT, trace fine SAND (moist, stiff)		8
7									
8	5	8.0	10.0	SS/17	3-6-6-7		Light Brown SILT, trace fine SAND (moist, stiff)		12
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/19	2-3-3		Light Brown SILT, trace fine SAND (moist, medium stiff)		6
15									
16									
17									
18									
19	7	18.5	20.0	SS/12	WH-4-10		Light Grey SILT, little cmf SAND, little weathered ROCK fragments (wet, stiff)		14
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-260</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.5	24.1	SS/6	6-100@1"		Continued from Page 1		100+
21									
22									
23									
24							Dark Grey highly weathered ROCK fragments, little SILT (wet) <i>Auger refusal @ 24.1'</i>		
25							Bottom of Boring @ 24.1'		
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-263</b>
<b>Page No.</b>	1 of 2
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	10/18/23
<b>Date Finished</b>	10/18/23
<b>Surface Elev.</b>	392.2'

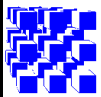
<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	G. Richards	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	R. Casatelli	<b>Casing Hammer:</b>		10/18/23	While Drilling	None Noted	24.8
<b>Inspector:</b>		<b>Other:</b>		10/18/23	Before Casing Removed	10.6	24.8
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	2" OD Split Barrel	10/18/23	After Casing Removed	12.2	out
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	10/18/23	After Casing Removed	caved @ 17.0	out
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/16	1-2-7-7		Light Brown SILT, trace fine SAND, trace ROOTS (moist, stiff)	9	
1									
2	2	2.0	4.0	SS/18	6-6-6-6		Light Brown SILT, trace fine SAND (moist, stiff)	12	
3									
4	3	4.0	6.0	SS/17	3-4-5-5		Similar as above (moist, stiff)	9	
5									
6	4	6.0	8.0	SS/16	5-4-3-4		Similar as above (moist, medium stiff)	7	
7									
8	5	8.0	10.0	SS/19	1-2-2-4		Similar as above (moist, medium stiff)	4	
9									
10									
11									
12									
13									
14	6	14.0	16.0	SS/12	7-9-12-9		Light Brown/Light Grey SILT, little cmf GRAVEL, trace fine SAND (moist, very stiff)	21	
15									
16									
17									
18									
19	7	19.0	21.0	SS/14	12-11-9-9		Light Brown/Light Grey SILT, little cmf GRAVEL, trace fine SAND (moist, very stiff)	20	
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-263</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %	
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
20	8	24.0	24.8	SS/7	45-100@3"		Continued from Page 1		100+	
21										
22										
23										
24							Grey weathered ROCK fragments, little SILT (wet)			
25							24.8'	Auger refusal @ 24.8'		
26							Bottom of Boring @ 24.8'			
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-271	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-03-1223
<b>Project Name:</b> Micron Campus, Clay, New York					<b>Date Started</b> 10/23/23				
<b>Client:</b> Ramboll					<b>Date Finished</b> 10/23/23				
<b>Location:</b> See Exploration Location Plan					<b>Surface Elev.</b> 393.1'				
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> J. Winks		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> R. Casatelli		<b>Casing Hammer:</b>		10/20/23	While Drilling	22.0	23.5		
<b>Inspector:</b>		<b>Other:</b>		10/23/23	Before Casing Removed	22.0	23.5		
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		10/23/23	After Casing Removed	None Noted	out		
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		10/23/23	After Casing Removed	caved @ 5.3	out		
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse m - medium f - fine</b>		<b>SPT "N" or RQD %</b>
0	1A	0.0	1.0	SS/16	1-2-4-7		Topsoil and Organic Material (moist)		6
1	1B	1.0	2.0				Light Brown SILT, trace fine SAND, trace CLAY (moist, medium stiff)		
2	2	2.0	4.0	SS/20	6-7-7-7		Light Brown SILT, trace fine SAND, trace CLAY (moist, stiff)		14
3									
4	3	4.0	6.0	SS/15	4-5-6-5		Light Brown SILT, trace fine SAND, trace CLAY (moist, stiff)		11
5									
6	4	6.0	8.0	SS/21	5-5-5-3		Light Brown SILT, trace fine SAND (moist, stiff)		10
7									
8	5	8.0	10.0	SS/20	1-1-2-1		Light Brown SILT, trace fine SAND (wet, soft)		3
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/14	8-12-11		Light Brown SILT, little cmf GRAVEL, trace fine SAND (moist, very stiff)		23
15									
16									
17									
18									
19	7	18.5	20.0	SS/12	3-8-12		Light Grey SILT, little cmf GRAVEL, little fine SAND (wet, very stiff)		20
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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 Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-271</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1123


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.5	24.3	SS/8	33-100@4"		Continued from Page 1		100+
21									
22									
23									
24							Grey weathered ROCK fragments, some SILT (moist)		
25	<i>Auger refusal @ 24.1'</i>								
26	Bottom of Boring @ 24.3'								
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
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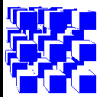
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-281	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-03-1223
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll			<b>Location:</b> See Exploration Location Plan		<b>Date Started</b> 10/20/23	<b>Date Finished</b> 10/23/23	<b>Surface Elev.</b> 383.7'
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> J. Winks <b>Driller:</b> R. Casatelli <b>Inspector:</b> <b>Drill Rig:</b> CME 550X <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				10/20/23	While Drilling	6.4	18.0		
				10/23/23	Before Casing Removed	5.6	19.0		
				10/23/23	After Casing Removed	6.0	21.0		
				10/23/23	After Casing Removed	caved @ 8.0	out		
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> <b>From</b> <b>To</b>		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse</b> <b>m - medium</b> <b>f - fine</b>	<b>and - 35 to 50% / some - 20 to 35%</b> <b>little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1	0.0   2.0		SS/12	1-1-2-6		Light Brown SILT, trace ORGANIC MATERIAL, trace fine SAND (moist, stiff)		3
1									
2	2	2.0   4.0		SS/19	3-4-5-5		Light Brown SILT, trace fine SAND, trace cmf GRAVEL (moist, stiff)		9
3									
4	3	4.0   6.0		SS/13	7-20-12-7		Grey/Light Brown cmf GRAVEL, little SILT, trace fine SAND		32
5									
6	4	6.0   7.3		SS/11	33-19-100@4"		Grey/Brown cmf GRAVEL, little SILT, trace fine SAND (wet, very compact)		100+
7									
8	5	8.0   10.0		SS/18	12-17-28-18		Grey/Brown SILT, some cmf GRAVEL, trace fine SAND (wet, hard)		45
9									
10									
11									
12									
13									
14	6	13.5   15.0		SS/15	17-16-27		Grey/Brown SILT, little cmf GRAVEL, little fine SAND (moist, hard)		43
15									
16									
17									
18									
19	7	18.5   19.9		SS/16	25-48-100@5"		Grey SILT, little cmf GRAVEL, trace fine SAND (moist, hard)		100+
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
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Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-281</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20							Continued from Page 1		
21							<i>Auger refusal @ 21.7'</i>		
22							Bottom of Boring @ 21.7'		
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**





6035 Corporate Drive  
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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-292</b>
<b>Page No.</b>	1 of 2
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	10/24/23
<b>Date Finished</b>	10/24/23
<b>Surface Elev.</b>	385.5'

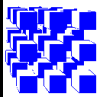
<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	B. Fletcher	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	R. Casatelli	<b>Casing Hammer:</b>		10/24/23	While Drilling	7.0	18.0
<b>Inspector:</b>		<b>Other:</b>	NQ-Core	10/24/23	Before Casing Removed	None Noted	18.5
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	2" OD Split Barrel	10/24/23	After Casing Removed	None Noted	out
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	10/24/23	After Casing Removed	caved @	out
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/14	2-1-3-4		Light Brown/Light Grey SILT, trace CLAY, trace ROOTS (moist, medium stiff)	4	
1									
2	2	2.0	4.0	SS/20	3-6-4-6		Light Brown/Light Grey SILT, trace CLAY, trace ROOTS (moist, stiff)	10	
3									
4	3	4.0	6.0	SS/18	2-2-2-2		Light Brown SILT, trace fine SAND (moist, medium stiff)	4	
5									
6	4	6.0	8.0	SS/16	2-4-4-5		Light Brown SILT, trace fine SAND (moist, stiff)	8	
7									
8	5	8.0	10.0	SS/17	3-3-3-4		Light Brown SILT, trace fine SAND (moist, medium stiff)	6	
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/19	3-2-3-2		Light Grey SILT, trace fine SAND (wet, medium stiff)	5	
15									
16									
17									
18	7	18.0	18.5	SS/6	100@6"		Augered harder beginning @ 18.0' Dark Grey weathered ROCK fragments, trace SILT (wet)	100+	
19	R1	18.5	23.5	C/60	NQ-Core		Auger refusal @ 18.5. Set up to core. Dark Grey/Black DOLOSTONE with interbedded Shale layers (<1/8" thick) throughout.	83%	
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-292</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	R2	23.5	28.5	C/60	NQ-Core		Continued from Page 1		47%
21							Horizontal fractures with iron staining @ 19.1' and 19.3'		
22							Recovery: 60"/60" = 100%		
23							RQD: 50"/60" = 83%		
24							8 Pieces, 1" Chips and fragments		
25							1:30 min/ft, water loss @ 19.5'		
26							Coring conducted in 5th gear, 2400 rpm, 400 psi down pressure.		
27							Dark Grey/Black DOLOSTONE with interbedded Shale layers (<1/8" to 1/2" thick) throughout, moderately weathered, thickly bedded, hard. SILT seams @ 24.8' to 25.1', 26.3' to 26.5' and 28.0'.		
28							Weathered and broken zone from 27.0' to 28.5' with breaks along Shale seams.		
29							Recovery: 60"/60" = 100%   RQD: 28"/60" = 47%		
30	14 Pieces, 6" Chips and fragments								
31	1.0' to 3.0', 1:30 min/ft, 3.0' to 5.0', 2:20 min/ft, water loss - no return.								
32	Coring conducted in 5th gear, 2400 rpm, 400 psi down pressure.								
33	Bottom of Boring @ 28.5'								
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b>	<b>B-300</b>	
<b>Project Name:</b> Micron Campus, Clay, New York							<b>Page No.</b>	1 of 2	
<b>Client:</b> Ramboll							<b>Report No.</b>	28062B-03-1223	
<b>Location:</b> See Exploration Location Plan							<b>Date Started</b>	10/06/23	
							<b>Date Finished</b>	10/06/23	
							<b>Surface Elev.</b>	393.6'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> A. Linstruth		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> D. MacDougal		<b>Casing Hammer:</b>		10/06/23	While Drilling	15.1	18.5		
<b>Inspector:</b> Astitwa Sharma, EIT		<b>Other:</b> NQ-Core		10/06/23	Before Casing Removed	12.7	28.0		
<b>Drill Rig:</b> CME 55		<b>Soil Sampler:</b> 2" OD Split Barrel		10/06/23	After Casing Removed	11	out		
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		10/06/23	After Casing Removed	caved @ 18.5	out		
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1	0.0	2.0	SS/14	1-2-3-5		Brown mottled SILT, little fine SAND, trace ROOTS (moist, medium stiff)		5
1									
2	2	2.0	4.0	SS/21	4-3-3-3		Brown SILT, trace fine SAND, trace CLAY (wet, medium stiff)		6
3									
4	3	4.0	6.0	SS/24	2-2-1-2		Brown SILT, some CLAY, trace fine SAND (wet, soft)		3
5									
6	4	6.0	8.0	SS/22	3-3-10-15		Brown SILT, some cmf SAND, little fine GRAVEL (wet, stiff)		13
7									
8	5A	8.0	9.5	SS/20	10-15-12-24		Brown SILT, some CLAY, trace fine SAND (wet, very stiff)		27
9	5B	9.5	10.0				Grey SILT and cmf SAND, some mf GRAVEL (wet)		
10									
11									
12									
13									
14	6	13.5	15.0	SS/2	10-12-23		Grey cmf SAND and SILT, some mf GRAVEL (wet, compact) <i>See Remark 1</i>		35
15									
16									
17									
18									
19	7	18.5	20.5	SS/12	WR-WR-2-7		Brown fine SAND, trace SILT, trace fine GRAVEL (wet, very loose)		2
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. 2" recovery with 2" spoon, therefore a 3" spoon was utilized.



6035 Corporate Drive  
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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-300</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
20							Continued from Page 1		
21									
22									
23	8	23.5	25.0	SS/13	9-10-13		Grey cmf SAND, trace fine GRAVEL (wet, medium compact)		23
24									
25							Augered gravelly beginning @ 26.5'		
26							Auger refusal @ 28.0'		
27							No Recovery. See Remark 1		
28	9 R1	28.0	28.0	SS/0	100@0"	NQ-Core	28.0' to 29.3'; Dark Grey/Black SHALE, slightly weathered, laminated to thinly bedded, medium hard.		100+ 87%
29							29.3' to 33.0'; Dark Grey/Black DOLOSTONE with interbedded SHALE layers (<1/8" to 3" thick) throughout, slightly weathered, laminated to thinly bedded, medium hard to hard. Weathered zone in Shale @ 35.7' to 35.9'. Recovery: 60"/60" = 100%   RQD: 520"/60" = 87%		
30							29.3' to 33.0'; Dark Grey/Black DOLOSTONE with interbedded SHALE layers (<1/8" to 3" thick) throughout, slightly weathered, laminated to thinly bedded, medium hard to hard. Weathered zone in Shale @ 35.7' to 35.9'. Recovery: 60"/60" = 100%   RQD: 520"/60" = 87%		
31							15 Pieces, 3" Chips and fragments 3:45 min/ft, no water loss Coring conducted in 5th gear, 2500 rpm, 650 psi down pressure.		
32							Dark Grey/Black DOLOSTONE with interbedded Shale layers (<1/8" to 2" thick) throughout, sound, laminated to thickly bedded, hard.		
33	R2	33.0	38.0	C/60	NQ-Core		Recovery: 60"/60" = 100%		100%
34							RQD: 60"/60" = 100%		
35							6 Pieces, 0" Chips and fragments 3 min/ft, no water loss Coring conducted in 5th gear, 2500 rpm, 650 psi down pressure.		
36									
37									
38							Bottom of Boring @ 38.0'		
39									
40									
41									
42									
43									
44									
45									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: 1. Grey ROCK chips and fragments on spoon top

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-301	<b>Page No.</b> 1 of 1	<b>Report No.</b> 28062B-03-1223
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll			<b>Location:</b> See Exploration Location Plan		<b>Date Started</b> 09/20/23	<b>Date Finished</b> 09/20/23	<b>Surface Elev.</b> 392.6'
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> Brian Swartz		<b>Casing:</b> 4 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> Jason Ersing		<b>Casing Hammer:</b>		09/20/23	While Drilling	None Noted			
<b>Inspector:</b> Astitwa Sharma, EIT		<b>Other:</b>		09/20/23	Before Casing Removed	None Noted	9.4		
<b>Drill Rig:</b> CME LC 55		<b>Soil Sampler:</b> 2" OD Split Barrel		09/20/23	After Casing Removed	7.2	out		
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		09/20/23	After Casing Removed	Caved @ 7.7	out		
<b>Rod Size:</b> NWJ		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1	0.0	2.0	SS/18	WH-2-5-6		Brown SILT, trace fine SAND, trace ORGANIC MATTER (moist, medium stiff)	7	
1									
2	2	2.0	4.0	SS/20	7-5-4-5		Brown mottled SILT, trace fine SAND, trace CLAY (wet, stiff)	9	
3									
4	3	4.0	6.0	SS/21	1-1-1-2		Brown SILT, little CLAY, trace fine SAND (wet, soft)	2	
5									
6	4	6.0	7.4	SS/10	3-17-100@5"		Brown SILT and cmf SAND, some mf GRAVEL (wet, hard)	100+	
7									
8	5	8.0	8.3	SS/4	100@4"		Grey/Brown mf GRAVEL and cmf SAND, little SILT (wet, very compact)	100+	
9							<i>Auger refusal @ 9.4'</i>		
10							Bottom of Boring @ 9.4'		
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-302	<b>Page No.</b> 1 of 1	<b>Report No.</b> 28062B-03-1223
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll			<b>Location:</b> See Exploration Location Plan		<b>Date Started</b> 09/21/23	<b>Date Finished</b> 09/21/23	<b>Surface Elev.</b> 392.3'
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> Brian Swartz		<b>Casing:</b> 4 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> Michael Mitrano		<b>Casing Hammer:</b>		09/21/23	While Drilling	9.3	10.3		
<b>Inspector:</b> Astitwa Sharma, EIT		<b>Other:</b>		09/21/23	Before Casing Removed	12.3	13.2		
<b>Drill Rig:</b> CME LC 55		<b>Soil Sampler:</b> 2" OD Split Barrel		09/21/23	After Casing Removed	11.2	out		
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		09/21/23	After Casing Removed	Caved @ 12.2	out		
<b>Rod Size:</b> NWJ		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
0	1	0.0	2.0	SS/20	WH-2-3-5		Brown mottled SILT, trace fine SAND, trace ORGANIC MATTER (moist, medium stiff)		5
1									
2	2	2.0	4.0	SS/16	6-6-4-4		Brown mottled SILT, trace fine SAND (wet, stiff)		10
3									
4	3	4.0	6.0	SS/13	1-1-3-3		Brown SILT, trace fine SAND, trace CLAY (wet, soft)		4
5									
6	4	6.0	8.0	SS/15	4-7-8-9		Brown SILT, little cmf SAND, trace fine GRAVEL (wet, stiff)		15
7									
8	5A	8.0	9.5	SS/16	15-12-18-35		Similar as above (moist, very stiff)		30
9									
10	5B	9.5	10.0				Grey mf GRAVEL, some SILT, some cmf SAND (moist, medium compact) <i>Augered hard beginning @ 10.3'.</i>		
11	6	10.3	12.3	SS/10	36-31-36-54		Grey cmf SAND and mf GRAVEL, little SILT (moist, very compact) <i>Augered hard beginning @ 11.8'.</i>		67
12	7	12.3	14.3	SS/6	13-60-43-30		Grey/Blackish weathered ROCK chips and fragments, some SILT (moist) <i>Auger refusal @ 13.2'</i>		103
13									
14							Bottom of Boring @14.3'		
15									
16									
17									
18									
19									
20									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>		<b>B-303</b>	
						Page No.		1 of 1	
						Report No.		28062B-03-1223	
<b>Project Name:</b>		Micron Campus, Clay, New York				<b>Date Started</b>		09/21/23	
<b>Client:</b>		Ramboll				<b>Date Finished</b>		09/21/23	
<b>Location:</b>		See Exploration Location Plan				<b>Surface Elev.</b>		390.8'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>		Brian Swartz		<b>Casing:</b>		4 1/4" ID H.S.A.		<b>Date</b>	
<b>Driller:</b>		Michael Mitrano		<b>Casing Hammer:</b>				<b>Time</b>	
<b>Inspector:</b>		Astitwa Sharma, EIT		<b>Other:</b>				<b>Depth (Ft.)</b>	
<b>Drill Rig:</b>		CME LC 55		<b>Soil Sampler:</b>		2" OD Split Barrel		<b>Casing At (Ft.)</b>	
<b>Type:</b>		Track		<b>Hammer Wt:</b>		140 lbs.		09/21/23	
<b>Rod Size:</b>		NWJ		<b>Hammer Fall:</b>		30 in.		While Drilling	
								10.0	
								14.4	
								11.6	
								Caved @ 16.1	
								out	
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/18	WH-1-4-5		Brown SILT, trace fine SAND, trace ORGANIC MATTER (moist, medium stiff)	5	
1									
2	2	2.0	4.0	SS/20	5-6-6-5		Brown mottled SILT, trace CLAY, trace fine SAND (wet, stiff)	12	
3									
4	3	4.0	6.0	SS/17	WH-1-1-1		Brown SILT, little CLAY, trace cmf SAND (wet, soft)	2	
5									
6	4	6.0	8.0	SS/16	1-1-2-3		Brown SILT, some CLAY (wet, soft)	3	
7									
8	5	8.0	10.0	SS/11	10-13-11-10		Brown/Grey cmf SAND and mf GRAVEL, some SILT (wet, medium compact)	24	
9									
10									
11									
12									
13	6	13.0	15.0	SS/17	16-16-16-21		Grey SILT, some cmf SAND, little mf GRAVEL (moist, hard)	32	
14									
15									
16									
17									
18	7	18.0	19.8	SS/13	18-16-30-100@3"		Similar as above (wet, hard)	46	
19									
20							Auger refusal @ 19.8' Bottom of Boring @ 19.8'		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod


Remarks:

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-304					
				<b>Page No.</b> 1 of 1					
<b>Project Name:</b> Micron Campus, Clay, New York				<b>Report No.</b> 28062B-03-1223					
<b>Client:</b> Ramboll				<b>Date Started</b> 09/21/23					
<b>Location:</b> See Exploration Location Plan				<b>Date Finished</b> 09/21/23					
				<b>Surface Elev.</b> 390.5'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b> Brian Swartz <b>Driller:</b> Jason Ersing <b>Inspector:</b> Astitwa Sharma, EIT <b>Drill Rig:</b> CME LC 55 <b>Type:</b> Track <b>Rod Size:</b> NWJ	<b>Casing:</b> 4 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>				
		09/21/23	While Drilling	6.3	8.0				
		09/21/23	Before Casing Removed	3.0	9				
		09/21/23	After Casing Removed	4.2	out				
		09/21/23	After Casing Removed	Caved @ 7.8	out				
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.8	SS/21	WH-2-3-4		Topsoil and Organic Matter (moist)		5
	1B	0.8	2.0				Brown SILT, trace mf SAND (moist, medium stiff)		
1									
2	2	2.0	4.0	SS/20	4-4-7-7		Brown SILT, trace fine SAND (wet, stiff)		11
3									
4	3	4.0	6.0	SS/15	2-5-4-3		Brown SILT, trace CLAY, trace fine SAND (wet, stiff)		9
5									
6	4	6.0	8.0	SS/20	3-4-5-4		Brown SILT, little mf SAND, trace CLAY, trace fine GRAVEL (wet, stiff)		9
7									
8	5	8.0	9.1	SS/7	36-61-100@1"		Brown/Grey mf GRAVEL, some SILT, little cmf SANDT (wet, very compact)		100+
9							Auger refusal @ 9.0'		
10							Bottom of Boring @ 9.1'		
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

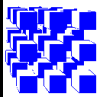


		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-304A	<b>Page No.</b> 1 of 2	
<b>Project Name:</b> Micron Campus, Clay, New York							<b>Report No.</b> 28062B-03-1223	<b>Date Started</b> 10/06/23	
<b>Client:</b> Ramboll							<b>Date Finished</b> 10/06/23	<b>Surface Elev.</b> 390.5'	
<b>Location:</b> See Exploration Location Plan									
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> A. Linstruth <b>Driller:</b> J. Winks <b>Inspector:</b> <b>Drill Rig:</b> CME 55 <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> NQ-Core <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				10/06/23	While Drilling	8.5	13.5		
				10/06/23	Before Casing Removed	8.7	28.6		
				10/06/23	After Casing Removed	6.0	out		
				10/06/23	After Casing Removed	caved @ 11.7	out		
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0									
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14	1A	13.5	14.1	SS/17	3-6-6				
14	1B	14.1	15.0						
15									
16									
17									
18									
19	2	18.5	19.2	SS/6	14-100@2"				100+
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Boring B304A was offset about 5' from original location and augered to 13.5' below existing grade. Sampling was commenced from 13.5' below grade.

Continued on Page 2



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>304A</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20							Continued from Page 1		
21									
22									
23									
24	3	23.5	24.8	SS/10	18-47-100@3"		Grey cmf SAND, some cmf GRAVEL, little SILT, little ROCK fragments (moist, very compact)		100+
25	4	25.2	25.2	SS/0			<i>Auger refusal @ 25.2'</i>		
26	R1	25.2	28.0		NQ-Core		<i>Cored 8" COBBLE, then into SOIL. Stopped @ 28.0'.</i>		
27									
28	5	28.0	28.6	SS/6	34-100@1"		Black ROCK fragments, trace SILT (moist)		100+
29							Bottom of Boring @ 28.6'		
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

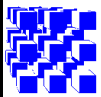
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No. B-306</b> <b>Page No. 1 of 2</b> <b>Report No. 28062B-03-1223</b>						
<b>Project Name:</b> Micron Campus, Clay, New York					<b>Date Started:</b> 10/03/23						
<b>Client:</b> Ramboll					<b>Date Finished:</b> 10/03/23						
<b>Location:</b> See Exploration Location Plan					<b>Surface Elev.:</b> 388.3'						
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>							
<b>Driller:</b> A. Linstruth		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>	
<b>Driller:</b> D. MacDoughall		<b>Casing Hammer:</b>		10/03/23		While Drilling		9.7		23.5	
<b>Inspector:</b> Astitwa Sharma, EIT		<b>Other:</b>		10/03/23		Before Casing Removed		9.8		23.5	
<b>Drill Rig:</b> CME 55		<b>Soil Sampler:</b> 2" OD Split Barrel		10/03/23		After Casing Removed		11.5		out	
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		10/03/23		After Casing Removed		caved @ 15.9		out	
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.									
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
0	1	0.0	2.0	SS/10	5-7-7-7		Grey/Brown SILT, trace fine SAND, trace ROOTS (moist, stiff)				14
1											
2	2	2.0	4.0	SS/20	4-4-7-7		Brown mottled SILT, trace fine SAND (wet, stiff)				11
3											
4	3	4.0	6.0	SS/17	4-5-7-4		Brown/Grey SILT, little CLAY, trace fine SAND (wet, stiff)				12
5											
6	4	6.0	8.0	SS/19	4-4-6-6		Brown mottled SILT, trace CLAY, trace fine SAND (wet, stiff)				10
7											
8	5	8.0	10.0	SS/20	3-4-4-5		Similar as above (wet, stiff)				8
9											
10											
11											
12											
13											
14	6	13.5	15.0	SS/12	3-2-2		Grey CLAY and SILT (wet, medium stiff)				4
15											
16											
17											
18											
19	7	18.5	20.0	SS/12	2-2-2		Augered gravelly beginning @ 18.0' Grey/Brown CLAY, some SILT, little cmf SAND, little fine GRAVEL (wet, medium stiff)				4
20							Continued on Page 2				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-306</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.5	24.7	SS/9	13-37-100@2"		Continued from Page 1		100+
21									
22									
23									
24							Grey ROCK chips and fragments, little mf GRAVEL, trace SILT (wet) <i>Auger refusal @ 25.3'</i>		
25	Bottom of Boring @ 25.3'								
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-307 <b>Page No.</b> 1 of 2 <b>Report No.</b> 28062B-03-1223					
<b>Project Name:</b>	Micron Campus, Clay, New York		<b>Date Started</b>	09/21/23					
<b>Client:</b>	Ramboll		<b>Date Finished</b>	09/21/23					
<b>Location:</b>	See Exploration Location Plan		<b>Surface Elev.</b>	388.7'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	Brian Swartz	<b>Casing:</b>	4 1/4" ID H.S.A.						
<b>Driller:</b>	Jason Ersing	<b>Casing Hammer:</b>	<b>Date</b>	<b>Time</b>					
<b>Inspector:</b>	Astitwa Sharma, EIT	<b>Other:</b>	09/21/23	While Drilling					
<b>Drill Rig:</b>	CME LC 55	<b>Soil Sampler:</b>	09/21/23	Before Casing Removed					
<b>Type:</b>	Track	<b>Hammer Wt:</b>	09/21/23	After Casing Removed					
<b>Rod Size:</b>	NWJ	<b>Hammer Fall:</b>	09/21/23	After Casing Removed					
				Caved @ 12.3					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/18	1-3-5-7		Brown SILT, trace fine SAND, trace ORGANIC MATTER (moist, medium stiff)		8
1									
2	2	2.0	4.0	SS/22	3-6-5-6		Brown mottled SILT, trace fine SAND, trace CLAY (moist, stiff)		11
3									
4	3	4.0	6.0	SS/17	2-5-5-6		Similar as above (wet, stiff)		10
5									
6	4	6.0	8.0	SS/18	4-5-4-6		Similar as above (wet, stiff)		9
7									
8	5	8.0	10.0	SS/12	2-4-3-4		Grey SILT and CLAY (wet, medium stiff)		7
9									
10									
11									
12									
13	6	13.0	15.0	SS/13	1-3-2-2		Grey CLAY and SILT (wet, medium stiff)		5
14									
15									
16									
17									
18	7	18.0	20.0	SS/12	WH-WH-4-6		Grey CLAY and SILT, some cmf SAND, little mf GRAVEL (wet, medium stiff)		4
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-307</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20							Continued from Page 1		
21									
22									
23	8	23.0	23.0	SS/0	100@0"		No Recovery. See Remark 1 Auger refusal @ 23.5'		100+
24							Bottom of Boring @ 23.5'		
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

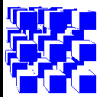
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Grey weathered ROCK chips and fragments on spoon top

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> B-308			
						Page No.		1 of 2	
						Report No.		28062B-03-1223	
<b>Project Name:</b> Micron Campus, Clay, New York						<b>Date Started</b> 09/20/23			
<b>Client:</b> Ramboll						<b>Date Finished</b> 09/20/23			
<b>Location:</b> See Exploration Location Plan						<b>Surface Elev.</b> 389.5'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> Brian Swartz		<b>Casing:</b> 4 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>			
<b>Driller:</b> Jason Ersing		<b>Casing Hammer:</b>		09/20/23		While Drilling			
<b>Inspector:</b> Astitwa Sharma, EIT		<b>Other:</b>		09/20/23		Before Casing Removed			
<b>Drill Rig:</b> CME LC 55		<b>Soil Sampler:</b> 2" OD Split Barrel		09/20/23		After Casing Removed			
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		09/20/23		After Casing Removed			
<b>Rod Size:</b> NWJ		<b>Hammer Fall:</b> 30 in.				Caved @ 13.6			
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/9	1-3-4-5		Dark Brown SILT, trace fine SAND, trace ORGANIC MATTER (moist, medium stiff)		7
1									
2	2	2.0	4.0	SS/5	5-4-5-5		Dark Brown SILT, trace fine SAND, trace CLAY (moist, stiff)		9
3									
4	3	4.0	6.0	SS/17	WH-3-3-3		Brown SILT, trace fine SAND, trace CLAY (wet, medium stiff)		6
5									
6	4	6.0	8.0	SS/15	3-4-4-5		Brown SILT, little CLAY, trace fine SAND (wet, stiff)		8
7									
8	5	8.0	10.0	SS/14	2-3-4-4		Grey/Brown SILT and CLAY (wet, medium stiff)		7
9									
10									
11									
12									
13	6	13.0	15.0	SS/11	2-5-4-4		Grey CLAY and SILT (wet, stiff)		9
14									
15									
16									
17									
18	7	18.0	20.0	SS/22	WH-WH-WH-1		Grey CLAY and SILT, trace cmf SAND, trace fine GRAVEL (wet, very soft)		0
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-308</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**


**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20							Continued from Page 1		
21									
22									
23	8	23.0	25.0	SS/13	WH-WH-10-20		Grey cmf SAND and mf GRAVEL, little SILT (wet, loose)		10
24									
25	9	25.2	25.4	SS/2	100@3"		<i>Auger refusal @ 25.2'</i>		100+
26							ROCK chips and fragments, little cmf SAND, trace SILT (wet)		
27							Bottom of Boring @ 25.4'		
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

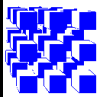


		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b>	<b>B-314</b>			
							<b>Page No.</b>	1 of 2			
							<b>Report No.</b>	28062B-03-1223			
<b>Project Name:</b>		Micron Campus, Clay, New York				<b>Date Started</b>		09/20/23			
<b>Client:</b>		Ramboll				<b>Date Finished</b>		09/20/23			
<b>Location:</b>		See Exploration Location Plan				<b>Surface Elev.</b>		392.0'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>		Brian Swartz		<b>Casing:</b>		4 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>		Jason Ersing		<b>Casing Hammer:</b>				09/20/23	While Drilling	None Noted	
<b>Inspector:</b>		Astitwa Sharma, EIT		<b>Other:</b>				09/20/23	Before Casing Removed	21.8	22
<b>Drill Rig:</b>		CME LC 55		<b>Soil Sampler:</b>		2" OD Split Barrel		09/20/23	After Casing Removed	6.5	out
<b>Type:</b>		Track		<b>Hammer Wt:</b>		140 lbs.		09/20/23	After Casing Removed	Caved @ 13.0	out
<b>Rod Size:</b>		NWJ		<b>Hammer Fall:</b>		30 in.					
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
0	1	0.0	2.0	SS/16	1-3-5-6		Brown SILT, trace fine SAND, trace ORGANIC MATTER (moist, stiff)				8
1											
2	2	2.0	4.0	SS/24	4-5-6-7		Brown mottled SILT, little CLAY, trace fine SAND (moist, stiff)				11
3											
4	3	4.0	6.0	SS/18	1-3-5-5		Brown mottled SILT, trace CLAY, trace fine SAND (wet, stiff)				8
5											
6	4	6.0	8.0	SS/13	8-8-7-8		Brown SILT, trace CLAY (wet, very stiff)				15
7											
8	5	8.0	10.0	SS/15	2-2-2-3		Grey CLAY and SILT (wet, medium stiff)				4
9											
10											
11											
12											
13											
14	6	13.0	15.0	SS/6	5-7-10-9		Grey cmf SAND and mf GRAVEL, little CLAY, trace SILT (wet, medium compact)				17
15											
16											
17											
18											
19											
20											

Continued on Page 2

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Sampling not feasible between 18.0' to 20.0' due to flowing sand conditions.



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-314</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20							Continued from Page 1		
21									
22							<i>Auger refusal @ 22.0'</i>		
23							Bottom of Boring @ 22.0'		
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

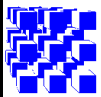
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-324					
				<b>Page No.</b> 1 of 2					
				<b>Report No.</b> 28062B-03-1223					
<b>Project Name:</b>	Micron Campus, Clay, New York			<b>Date Started</b> 09/19/23					
<b>Client:</b>	Ramboll			<b>Date Finished</b> 09/19/23					
<b>Location:</b>	See Exploration Location Plan			<b>Surface Elev.</b> 390.7'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	Brian Swartz	<b>Casing:</b>	4 1/4" ID H.S.A.						
<b>Driller:</b>	Jason Ersing	<b>Casing Hammer:</b>	<b>Date</b>	<b>Time</b>					
<b>Inspector:</b>	Astitwa Sharma, EIT	<b>Other:</b>	09/19/23	While Drilling					
<b>Drill Rig:</b>	CME LC 55	<b>Soil Sampler:</b>	09/19/23	Before Casing Removed					
<b>Type:</b>	Track	<b>Hammer Wt:</b>	09/19/23	After Casing Removed					
<b>Rod Size:</b>	NWJ	<b>Hammer Fall:</b>	09/19/23	After Casing Removed					
				Depth (Ft.)					
				Casing At (Ft.)					
				None Noted					
				20.9					
				8.3					
				Caved @ 20.9					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/19	WH-2-3-3		Brown SILT, trace fine SAND, trace ORGANIC MATTER (moist, medium stiff)		5
1									
2	2	2.0	4.0	SS/24	7-5-5-5		Brown/Pinkish SILT, trace CLAY, trace fine SAND (moist, stiff)		10
3									
4	3	4.0	6.0	SS/15	WH-3-3-4		Similar as above (wet, medium stiff)		6
5									
6	4	6.0	8.0	SS/13	5-4-6-8		Similar as above (wet, stiff)		10
7									
8	5	8.0	10.0	SS/15	1-3-5-5		Brown SILT, trace fine SAND (wet, stiff)		8
9									
10									
11									
12									
13									
14	6	13.0	15.0	SS/16	WH-4-5-11		Grey SILT and CLAY, some cmf SAND, little mf GRAVEL (wet, stiff)		9
15									
16							See Remark 1		
17									
18									
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Sampling not feasible due to flowing sand conditions encountered at bottom of 15.0'



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-324</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20							Continued from Page 1		
21									
22									
23									
24									
25							<i>Auger refusal @ 25.9'</i>		
26							Bottom of Boring @ 25.9'		
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>	<b>B-326</b>		
						<b>Page No.</b>	1 of 2		
						<b>Report No.</b>	28062B-03-1223		
<b>Project Name:</b>	Micron Campus, Clay, New York				<b>Date Started</b>	09/19/23			
<b>Client:</b>	Ramboll				<b>Date Finished</b>	09/19/23			
<b>Location:</b>	See Exploration Location Plan				<b>Surface Elev.</b>	388.4'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>	Brian Swartz	<b>Casing:</b>	4 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b>	Jason Ersing	<b>Casing Hammer:</b>			09/19/23	While Drilling	None Noted		
<b>Inspector:</b>	Astitwa Sharma, EIT	<b>Other:</b>			09/19/23	Before Casing Removed	19.7	22.7	
<b>Drill Rig:</b>	CME LC 55	<b>Soil Sampler:</b>	2" OD Split Barrel		09/19/23	After Casing Removed	6.2	out	
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.		09/19/23	After Casing Removed	Caved @ 12.3	out	
<b>Rod Size:</b>	NWJ	<b>Hammer Fall:</b>	30 in.						
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5	SS/16	2-2-2-5		Topsoil and Organic Matter (moist)		4
	1B	0.5	2.0				Brown mottled SILT, trace fine SAND (moist, medium stiff)		
1									
2	2	2.0	4.0	SS/24	6-7-7-7		Brown mottled SILT, little CLAY, trace fine SAND (moist, stiff)		14
3									
4	3	4.0	6.0	SS/17	2-3-5-4		Similar as above (wet, stiff)		8
5									
6	4	6.0	8.0	SS/16	4-6-5-7		Similar as above (wet, stiff)		11
7									
8	5	8.0	10.0	SS/10	WH-3-3-6		Brown SILT, trace mf GRAVEL, trace CLAY (wet, medium stiff)		6
9									
10									
11									
12									
13									
14	6	13.0	15.0	SS/19	WH-1-1-2		Grey CLAY and SILT (wet, soft)		2
15									
16									
17									
18	7	18.0	20.0	SS/7	WH-3-3-6		Grey SILT and CLAY, some cmf SAND, little fine GRAVEL (wet, medium stiff)		6
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Boring was offset about 20' North of staked location



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-326</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20							Continued from Page 1		
21									
22									
23							<i>Auger refusal @ 22.7'</i>		
24							<i>See Remark 2</i>		
25							<i>Bottom of Boring @ 22.7'</i>		
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

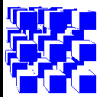
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 2. Sampling not feasible due to flowing sand condition.

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> B-328			
						<b>Page No.</b> 1 of 2			
						<b>Report No.</b> 28062B-03-1223			
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started</b> 09/19/23				<b>Date Finished</b> 09/19/23			
<b>Client:</b> Ramboll		<b>Location:</b> See Exploration Location Plan				<b>Surface Elev.</b> 389.6'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> Brian Swartz <b>Driller:</b> Jason Ersing <b>Inspector:</b> Astitwa Sharma, EIT <b>Drill Rig:</b> CME LC 55 <b>Type:</b> Track <b>Rod Size:</b> NWJ		<b>Casing:</b> 4 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b> 09/19/23 09/19/23 09/19/23 09/19/23		<b>Time</b> While Drilling Before Casing Removed After Casing Removed After Casing Removed			
						<b>Depth (Ft.)</b> None Noted Groundwater reading not taken due to flowing sand conditions.			
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1	0.0	2.0	SS/22	WH-3-4-5		Brown mottled SILT, trace fine SAND, trace CLAY, trace ROOTS (moist, medium stiff)		7
1									
2	2	2.0	4.0	SS/19	4-3-4-4		Pinkish Brown mottled SILT, little CLAY, trace fine SAND (moist, medium stiff)		7
3									
4	3	4.0	6.0	SS/18	1-2-3-4		Pinkish Brown SILT, some CLAY, trace fine SAND (wet, medium stiff)		5
5									
6	4	6.0	8.0	SS/17	2-3-4-7		Brown mottled SILT, trace CLAY, trace fine SAND (wet, medium stiff)		7
7									
8	5	8.0	10.0	SS/10	1-3-3-4		Grey CLAY and SILT (wet, medium stiff)		6
9									
10									
11									
12									
13									
14	6	13.0	15.0	SS/15	WH-WH-1-2		Similar as above (wet, very soft)		1
15									
16									
17									
18	7	18.0	20.0	SS/20	WR-WH-1-1		Similar as above (wet, very soft)		1
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-328</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20							Continued from Page 1 <i>See Remark 1</i>		
21									
22									
23									
24									
25							<i>Auger refusal @ 25.0'</i> Bottom of Boring @ 25.0'		
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Sampling not feasible due to flowing sand conditions between 23.0' to 25.0'. Grey cmf SAND noted in the split-spoon.





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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-328A</b>
<b>Page No.</b>	1 of 1
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	10/12/23
<b>Date Finished</b>	10/12/23
<b>Surface Elev.</b>	389.6'


<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	A. Linstruth	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	J. Winks	<b>Casing Hammer:</b>		10/12/23	While Drilling	11.6	14.0
<b>Inspector:</b>		<b>Other:</b>		10/12/23	Before Casing Removed	11.6	14
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	2" OD Split Barrel	10/12/23	After Casing Removed	None Noted	out
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	10/12/23	After Casing Removed	caved @ 5.2	out
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0									
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14	1	14.0	16.0		Shelby Tube		No Recovery. See Remark 1 Grey SILT and fine SAND (wet)		
15									
16	2	16.0	18.0		Shelby Tube		No Recovery. See Remark 1 Grey fine SAND and SILT (wet)		
17									
18							Bottom of Boring @ 18.0'		
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. No recovery with a 2" spoon; therefore a 3" spoon was utilized.

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>	<b>B-335</b>		
						<b>Page No.</b>	1 of 2		
						<b>Report No.</b>	28062B-03-1223		
<b>Project Name:</b>	Micron Campus, Clay, New York				<b>Date Started</b>	09/18/23			
<b>Client:</b>	Ramboll				<b>Date Finished</b>	09/18/23			
<b>Location:</b>	See Exploration Location Plan				<b>Surface Elev.</b>	394.8'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>	Brian Swartz	<b>Casing:</b>	4 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b>	Jason Ersing	<b>Casing Hammer:</b>			09/18/23	While Drilling	16.5	18.0	
<b>Inspector:</b>	Astitwa Sharma, EIT	<b>Other:</b>			09/18/23	Before Casing Removed	21.3	23.4	
<b>Drill Rig:</b>	CME LC 55	<b>Soil Sampler:</b>	2" OD Split Barrel		09/18/23	After Casing Removed	5.8	out	
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.		09/18/23	After Casing Removed	caved @ 13.3	out	
<b>Rod Size:</b>	NWJ	<b>Hammer Fall:</b>	30 in.						
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.4	SS/20	WH-2-3-5		Grey Topsoil and Organic Matter (moist)		5
1	1B	0.4	2.0				Brown mottled SILT, trace fine SAND (wet, medium stiff)		
2	2	2.0	4.0	SS/18	2-3-3-5		Brown SILT, little CLAY, trace fine SAND (wet, medium stiff)		6
3									
4	3	4.0	6.0	SS/19	2-3-2-5		Brown SILT, trace CLAY (wet, medium stiff)		5
5									
6	4	6.0	8.0	SS/18	5-8-6-6		Brown mottled SILT, trace CLAY (wet, stiff)		14
7									
8	5	8.0	10.0	SS/10	1-2-3-5		Grey CLAY and SILT (wet, medium stiff)		5
9									
10									
11									
12									
13	6	13.0	15.0	SS/17	WH-WH-WH-WH		Grey cmf SAND, some mf GRAVEL, little CLAY, trace SILT (wet, very loose)		0
14									
15									
16									
17									
18	7	18.0	20.0		21-27-24-30		Grey SILT, some cmf SAND, some mf GRAVEL, trace CLAY (wet, hard)		51
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-335</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.0	24.1		12-33-100@1"		Continued from Page 1		100+
21									
22									
23							Dark Grey decomposed SHALE, trace mf GRAVEL (wet)		
24							<i>Auger refusal @ 23.4'</i>		
25							Bottom of Boring @ 24.1'		
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b>	<b>B-337</b>			
					<b>Page No.</b>	1 of 2			
					<b>Report No.</b>	28062B-03-1223			
<b>Project Name:</b>	Micron Campus, Clay, New York			<b>Date Started</b>	10/30/23				
<b>Client:</b>	Ramboll			<b>Date Finished</b>	10/30/23				
<b>Location:</b>	See Exploration Location Plan			<b>Surface Elev.</b>	403.5'				
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b>	B. Fletcher	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b>	R. Casatelli	<b>Casing Hammer:</b>		10/30/23	While Drilling	15.0	18.5		
<b>Inspector:</b>		<b>Other:</b>		10/30/23	Before Casing Removed	20.0	27.3		
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	2" OD Split Barrel	10/30/23	After Casing Removed	7.7	out		
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	10/30/23	After Casing Removed	caved @ 8.0	out		
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.						
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/12	1-1-2-2		Light Brown SILT, trace fine SAND, trace ROOTS (moist, soft)		3
1									
2	2	2.0	4.0	SS/16	4-4-2-2		Light Brown SILT, little fine GRAVEL, trace fine SAND (moist, medium stiff)		6
3									
4	3	4.0	6.0	SS/12	2-8-7-8		Light Brown SILT, little cmf GRAVEL, little fine SAND (moist, very stiff)		15
5									
6	4	6.0	8.0	SS/10	8-7-6-6		Similar as above (moist, stiff)		13
7									
8	5	8.0	10.0	SS/17	5-6-10-14		Light Brown SILT, little mf GRAVEL, little mf SAND (moist, very stiff)		16
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/12	23-28-30		Light Brown/Grey SILT, little cmf GRAVEL, little fine SAND (moist, hard)		58
15									
16									
17									
18									
19	7	18.5	20.0	SS/17	21-41-36		Grey SILT, little mf GRAVEL, little mf SAND (moist, hard)		77
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-337</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20							Continued from Page 1		
21									
22									
23	8	23.5	25.0	SS/14	45-35-46		Similar as above (moist, hard)		81
24									
25							Auger refusal @ 26.0'		
26	9	26.0	27.3	SS/0	77-74-100@3"		No Recovery		100+
27									
28							Bottom of Boring @ 27.3'		
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-339	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-03-1223
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll			<b>Location:</b> See Exploration Location Plan		<b>Date Started</b> 09/18/23	<b>Date Finished</b> 09/18/23	<b>Surface Elev.</b> 391.9'
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> Brian Swartz		<b>Casing:</b> 4 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> Jason Ersing		<b>Casing Hammer:</b>		09/18/23	While Drilling	12.0	18.0		
<b>Inspector:</b> Astitwa Sharma, EIT		<b>Other:</b>		09/18/23	Before Casing Removed	24.1	28.5		
<b>Drill Rig:</b> CME LC 55		<b>Soil Sampler:</b> 2" OD Split Barrel		09/18/23	After Casing Removed	6.4	out		
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		09/18/23	After Casing Removed	caved @ 10.4	out		
<b>Rod Size:</b> NWJ		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1A	0.0	0.4	SS/17	WH-WH-2-2		Grey Topsoil and Organic Matter (moist)		2
1	1B	0.4	2.0				Brown mottled SILT, trace fine SAND (moist, soft)		
2	2	2.0	4.0	SS/24	2-4-4-4		Brown mottled SILT, trace fine SAND, trace CLAY (wet, medium stiff)		8
3									
4	3	4.0	6.0	SS/17	1-3-5-7		Brown SILT, trace fine SAND (wet, medium stiff)		8
5									
6	4	6.0	8.0	SS/15	6-5-3-4		Grey/Brown SILT and CLAY, trace fine SAND (wet, medium stiff)		8
7									
8	5	8.0	10.0	SS/15	2-3-4-5		Similar as above (wet, medium stiff)		7
9									
10									
11									
12									
13	6	13.0	15.0	SS/16	1-1-1-1		Grey CLAY and SILT (wet, soft)		2
14									
15									
16									
17									
18	7	18.0	20.0	SS/12	8-9-10-9		Grey SILT, some cmf SAND, trace fine GRAVEL, trace CLAY (wet, very stiff)		19
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-339</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20							Continued from Page 1		
21									
22									
23	8	23.0	25.0	SS/16	14-18-30-40		Dark Grey SILT, some cmf SAND, trace fine GRAVEL, trace CLAY (wet, hard)		48
24									
25									
26									
27									
28	9	28.0	28.1	SS/1	100@1"		ROCK chips and fragments, trace SILT (wet) <i>Auger refusal @ 28.5'</i>		100+
29							Bottom of Boring @ 28.5'		
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-341</b>
<b>Page No.</b>	1 of 2
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	09/18/23
<b>Date Finished</b>	09/18/23
<b>Surface Elev.</b>	391.0'

<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

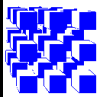
METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	Brian Swartz	<b>Casing:</b>	4 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	Jason Ersing	<b>Casing Hammer:</b>		09/18/23	While Drilling	2.9	18.0
<b>Inspector:</b>	Astitwa Sharma, EIT	<b>Other:</b>		09/18/23	Before Casing Removed	2.9	22.5
<b>Drill Rig:</b>	CME LC 55	<b>Soil Sampler:</b>	2" OD Split Barrel	09/18/23	After Casing Removed	5.0	out
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.	09/18/23	After Casing Removed	caved @ 19.0	out
<b>Rod Size:</b>	NWJ	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5	SS/20	WH-1-3-5		Topsoil and Organic Matter (moist)		4
	1B	0.5	2.0				Brown mottled SILT, trace fine SAND (moist, medium stiff)		
1									
2	2	2.0	4.0	SS/24	4-5-5-4		Similar as above (wet, stiff)		10
3									
4	3	4.0	6.0	SS/15	WH-3-5-5		Brown SILT, trace fine SAND, trace CLAY (wet, stiff)		8
5									
6	4	6.0	8.0	SS/18	3-4-5-7		Brown/Grey SILT, some CLAY, trace fine SAND (wet, stiff)		9
7									
8	5	8.0	10.0	SS/12	WH-2-3-5		Grey CLAY and SILT (wet, medium stiff)		5
9									
10									
11									
12									
13	6	13.0	15.0	SS/16	1-2-2-3		Similar as above (wet, medium stiff)		4
14									
15									
16									
17									
18	7	18.0	20.0	SS/9	12-8-7-10		Dark Grey cmf GRAVEL and cmf SAND, trace SILT, trace CLAY (wet, medium compact)		15
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**





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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-341</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	22.5	22.5	SS/0	100@0"		Continued from Page 1		100+
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Grey ROCK chips and fragments noted on spoon top



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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-346</b>
<b>Page No.</b>	1 of 2
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	04/28/23
<b>Date Finished</b>	04/28/23
<b>Surface Elev.</b>	403.9'

<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	Gary Richard	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	Chris O' Hara	<b>Casing Hammer:</b>		04/28/23	While Drilling	None Noted	
<b>Inspector:</b>	Astitwa Sharma, EIT	<b>Other:</b>		04/28/23	Before Casing Removed	19.1	21.7
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	2" OD Split Barrel	04/28/23	After Casing Removed	4.2	out
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.	04/28/23	After Casing Removed	caved @ 4.5	out
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5	SS/15	WH-WH-2-2		Topsoil and Organic Material (moist)		2
1	1B	0.5	2.0				Brown SILT, trace fine SAND, trace CLAY (moist, soft)		
2	2	2.0	4.0	SS/18	3-3-3-3		Brown SILT, trace CLAY (moist, medium stiff)		6
3									
4	3	4.0	6.0	SS/24	3-2-3-4		Same as above (wet, medium stiff)		5
5									
6	4	6.0	8.0	SS/14	6-6-5-6		Same as above (wet, medium stiff)		11
7									
8	5	8.0	10.0	SS/24	5-7-6-6		Brown SILT, trace CLAY, trace fine SAND, (moist, stiff)		13
9									
10									
11									
12									
13	6	13.5	15.0	SS/13	8-7-5		Grey cmf SAND, some SILT, trace mf GRAVEL (wet, medium compact)		12
14									
15									
16									
17									
18									
19	7	18.5	20.0	SS/4	12-13-13		Gray SILT and mf GRAVEL, some cmf SAND (moist, very stiff)		26
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-346</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	21.7	21.7	SS/0	100@ 0"		Continued from Page 1		100+
21							<i>Augered hard @ 21.3'</i>		
22							<i>No Recovery. See Remark 1</i>		
23							<i>Bottom of Boring @ 21.7'</i>		
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Grey ROCK chips and fragments noted on spoon tip

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b>	<b>B-350</b>			
					<b>Page No.</b>	1 of 1			
					<b>Report No.</b>	28062B-03-1223			
<b>Project Name:</b>	Micron Campus, Clay, New York			<b>Date Started</b>	09/14/23				
<b>Client:</b>	Ramboll			<b>Date Finished</b>	09/14/23				
<b>Location:</b>	See Exploration Location Plan			<b>Surface Elev.</b>	391.4'				
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b>	Brian Swartz	<b>Casing:</b>	4 ¼" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b>	Jason Ersing	<b>Casing Hammer:</b>			09/14/23	While Drilling	12	18	
<b>Inspector:</b>	Astitwa Sharma, EIT	<b>Other:</b>			09/14/23	Before Casing Removed	9.5	18.3	
<b>Drill Rig:</b>	CME LC 55	<b>Soil Sampler:</b>	2" OD Split Barrel		09/14/23	After Casing Removed	5.1	out	
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.		09/14/23	After Casing Removed	caved @ 16.2	out	
<b>Rod Size:</b>	NWJ	<b>Hammer Fall:</b>	30 in.						
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/12	WH-1-3-4		Brown SILT, trace fine SAND, trace ROOTS (moist, medium stiff)	4	
1									
2	2	2.0	4.0	SS/16	8-5-5-4		Brown SILT, trace CLAY, trace fine SAND (wet, stiff)	10	
3									
4	3	4.0	6.0	SS/15	2-2-3-4		Brown SILT, little CLAY, trace cmf SAND (wet, medium stiff)	5	
5									
6	4	6.0	8.0	SS/13	3-4-6-4		Brown SILT, some CLAY, trace mf SAND (wet, stiff)	10	
7									
8	5	8.0	10.0	SS/15	2-3-4-3		Brown mottled SILT, some CLAY, trace fine SAND (wet, medium stiff)	7	
9									
10									
11									
12									
13	6	13.0	15.0	SS/9	WH-3-2-3		Grey CLAY, some SILT, little cmf SAND, trace fine GRAVEL (wet, medium stiff)	5	
14									
15									
16									
17									
18	7	18.0	18.3	SS/3	100@3"		Grey ROCK chips and fragments, little SILT, trace cmf SAND, trace mf GRAVEL (wet) <i>Auger refusal @ 18.5'</i>	100+	
19							<i>Bottom of Boring @ 18.5'</i>		
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-361	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-03-1223			
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll		<b>Date Started</b> 10/12/23	<b>Date Finished</b> 10/12/23	<b>Surface Elev.</b> 395.1'			
<b>Location:</b> See Exploration Location Plan		<b>METHODS OF INVESTIGATION</b>		<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b> A. Linstruth <b>Driller:</b> J. Winks <b>Inspector:</b> <b>Drill Rig:</b> CME 55 <b>Type:</b> ATV <b>Rod Size:</b> AWJ	<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>				
		10/12/23	While Drilling	14.2	13.5				
		10/12/23	Before Casing Removed	19.2	26.5				
		10/12/23	After Casing Removed	10.5	out				
		10/12/23	After Casing Removed	caved @ 11.7	out				
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse</b> <b>m - medium</b> <b>f - fine</b>	<b>and - 35 to 50% / some - 20 to 35%</b> <b>little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1	0.0	2.0	SS/15	5-5-7-7		Brown mf SAND, little SILT (moist, medium compact)		12
1									
2	2	2.0	4.0	SS/17	4-5-5-7		Brown SILT, some fine SAND, trace CLAY (moist, stiff)		10
3									
4	3	4.0	6.0	SS/20	4-5-5-5		Brown fine SAND, some SILT (wet, stiff)		10
5									
6	4	6.0	8.0	SS/19	5-5-7-4		Brown SILT, little fine SAND, trace CLAY (wet, stiff)		12
7									
8	5A	8.0	9.5		3-4-3-7		Brown cmf SAND, little mf GRAVEL, little SILT (wet, medium compact)		7
9	5B	9.5	10.0				<i>Augers gravelly beginning @ 9.5'</i> Brown cmf SAND, little mf GRAVEL, little SILT (wet)		
10									
11									
12									
13									
14	6	13.5	15.0	SS/10	7-7-7		Brown cmf SAND, some mf GRAVEL, trace SILT (wet, medium compact)		14
15									
16									
17							<i>Augers more dense beginning @ 17.0'</i>		
18									
19	7	18.5	20.0	SS/11	23-33-36		Brown/Grey SILT, some mf SAND (wet, hard)		69
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-361</b>
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<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.5	24.3	SS/5	33-100@3"		Continued from Page 1		100+
21									
22									
23							Grey SILT and ROCK fragments, little cmf GRAVEL (moist, hard)		
24									
25	9	26.5	26.5	SS/0	100@0"	26.5'	Auger refusal @ 26.5' No Recovery		100+
26									
27							Bottom of Boring @ 26.5'		
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

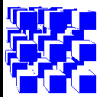
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b>	<b>B-363</b>	
<b>Project Name:</b> Micron Campus, Clay, New York							<b>Page No.</b>	1 of 2	
<b>Client:</b> Ramboll							<b>Report No.</b>	28062B-03-1223	
<b>Location:</b> See Exploration Location Plan							<b>Date Started</b>	11/01/23	
							<b>Date Finished</b>	11/01/23	
							<b>Surface Elev.</b>	395.8'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> R. Casatelli		<b>Casing Hammer:</b>		11/01/23	While Drilling	21.0	22.5		
<b>Inspector:</b>		<b>Other:</b>		11/01/23	Before Casing Removed	21.0	22.5		
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		11/01/23	After Casing Removed	10.3	out		
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		11/01/23	After Casing Removed	caved @ 13.5			
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1A	0.0	1.0	SS/16	1-1-5-7		Topsoil and Organic Material (moist)		6
1	1B	1.0	2.0				Light Brown/Grey SILT, trace fine SAND (moist, medium stiff)		
2	2	2.0	4.0	SS/20	6-7-8-8		Light Brown/Grey SILT, trace fine SAND (moist, very stiff)		15
3									
4	3	4.0	6.0	SS/18	3-2-3-2		Light Brown SILT, trace fine SAND (wet, medium stiff)		5
5									
6	4	6.0	8.0	SS/18	3-3-4-4		Similar as above (moist, medium stiff)		7
7									
8	5	8.0	10.0	SS/16	4-5-5-7		Light Brown/Grey SILT, little cmf GRAVEL, little cmf SAND (moist, stiff)		10
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/15	5-2-5		Grey SILT, little mf GRAVEL, little fine SAND (moist, medium stiff)		7
15									
16									
17									
18									
19	7	18.5	20.0	SS/16	24-21-36		Dark Grey SILT and highly weathered ROCK fragments (moist, hard)		57
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-363</b>
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<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**


**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20							Continued from Page 1		
21									
22									
23							<i>Auger refusal @ 22.5'</i>		
24							Bottom of Boring @ 22.5'		
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

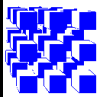
**Remarks:**



 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No. B-364</b> <b>Page No. 1 of 2</b> <b>Report No. 28062B-03-1223</b>				
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 10/12/23							
<b>Client:</b> Ramboll		<b>Date Finished:</b> 10/12/23							
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 395.8'							
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b> A. Linstruth	<b>Casing:</b> 3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>				
<b>Driller:</b> J. Winks	<b>Casing Hammer:</b>	10/12/23	While Drilling	20.0	22.8				
<b>Inspector:</b>	<b>Other:</b>	10/12/23	Before Casing Removed	20.0	22.8				
<b>Drill Rig:</b> CME 550X	<b>Soil Sampler:</b> 2" OD Split Barrel	10/12/23	After Casing Removed	None Noted	out				
<b>Type:</b> ATV	<b>Hammer Wt:</b> 140 lbs.	10/12/23	After Casing Removed	caved @ 9.9	out				
<b>Rod Size:</b> AWJ	<b>Hammer Fall:</b> 30 in.								
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/17	1-2-7-9		Brown SILT, little fine SAND (moist, stiff)		9
1									
2	2	2.0	4.0	SS/21	5-6-5-5		Brown SILT, some fine SAND, trace CLAY (wet, stiff)		11
3									
4	3	4.0	6.0	SS/12	4-4-6-6		Brown SILT, some mf SAND (wet, stiff)		10
5									
6	4	6.0	8.0	SS/19	4-7-8-8		Brown fine SAND, little SILT (wet, medium compact)		15
7									
8	5	8.0	10.0	SS/17	2-2-3-4		Brown cmf SAND, little fine GRAVEL, little SILT (wet, loose)		5
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/11	3-3-8		Black/Grey SILT, some cmf SAND, trace mf GRAVEL (moist, stiff) <i>ROCK fragments noted</i>		11
15									
16									
17									
18									
19	7	18.5	20.0	SS/11	7-28-43		Grey SILT, some ROCK fragments, little mf SAND (moist, hard)		71
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-364</b>
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<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	22.0	22.8	SS/7	77-100@4"		Continued from Page 1		100+
21							Grey SILT and ROCK fragments, little cmf SAND (wet, hard) <i>Auger refusal @ 22.8'</i>		
22							Bottom of Boring @ 22.8'		
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
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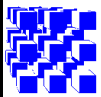
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>	<b>B-366</b>		
						<b>Page No.</b>	1 of 2		
						<b>Report No.</b>	28062B-03-1223		
<b>Project Name:</b>	Micron Campus, Clay, New York				<b>Date Started</b>	10/16/23			
<b>Client:</b>	Ramboll				<b>Date Finished</b>	10/16/23			
<b>Location:</b>	See Exploration Location Plan				<b>Surface Elev.</b>	393.0'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>	G. Richards	<b>Casing:</b>	3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b>	R. Casatelli	<b>Casing Hammer:</b>			10/16/23	While Drilling	None Noted	17.3	
<b>Inspector:</b>		<b>Other:</b>	NQ-Core		10/16/23	Before Casing Removed	None Noted	17.3	
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	2" OD Split Barrel		10/16/23	After Casing Removed	None Noted	out	
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.		10/16/23	After Casing Removed	caved @	out	
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.						
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	1.0	SS/14	2-2-4-3		Topsoil and Organic Material (moist)		6
1	1B	1.0	2.0				Light Brown SILT, trace fine SAND, trace Organic Material (moist, medium stiff)		
2	2	2.0	4.0	SS/16	3-7-6-8		Brown SILT, trace fine SAND, trace mf GRAVEL, trace Organic Material (moist, stiff)		13
3									
4	3	4.0	6.0	SS/13	2-2-3-2		Brown SILT, little CLAY, little cmf GRAVEL, trace fine SAND (moist, medium stiff)		5
5									
6	4	6.0	8.0	SS/18	3-3-6-11		Brown SILT, little cmf GRAVEL, trace fine SAND, trace CLAY (moist, stiff)		9
7									
8	5	8.0	10.0	SS/24	8-16-31-40		Brown/Grey SILT, little cmf GRAVEL, little weathered ROCK fragments, trace fine SAND (moist, hard)		47
9									
10									
11									
12							<i>Augered hard beginning @ 11.7'</i>		
13									
14	6	14.0	16.0	SS/3	30-60-66-45		Grey weathered ROCK chips and fragments (moist)		126
15									
16									
17	7	17.2	17.3	SS/1	100@1"		Grey weathered SHALE fragments, some SILT (moist) <i>Spoon and Auger refusal @ 17.3'. Set up to core.</i>		100+
18	R1	17.3	22.3	C/43			Dark Grey/Black SHALE with interbedded DOLOSTONE layers (<1/8" to 1/2" thick), highly weathered, laminated to thinly bedded, medium hard. Weathered and highly broken zones @ 17.3' to 18.9' and 19.8' to 20.4'.		30%
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-366</b>
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<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20							Continued from Page 1		
21							Recovery: 43"/60" = 72%   RQD: 18"/60" = 30%		
22							3 Pieces, 24" Chips and fragments		
23							2 min/ft, no water loss		
24							Coring conducted in 4th gear, 1700 rpm, 500 psi down pressure.		
25							Bottom of Boring @ 22.3'		
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-370	<b>Page No.</b> 1 of 1		
<b>Project Name:</b> Micron Campus, Clay, New York							<b>Report No.</b> 28062B-03-1223	<b>Date Started</b> 11/01/23		
<b>Client:</b> Ramboll							<b>Date Finished</b> 11/01/23	<b>Surface Elev.</b> 393.7'		
<b>Location:</b> See Exploration Location Plan										
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b> B. Fletcher		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>			
<b>Driller:</b> R. Casatelli		<b>Casing Hammer:</b>		11/01/23	While Drilling	None Noted	15.4			
<b>Inspector:</b>		<b>Other:</b>		11/01/23	Before Casing Removed	None Noted	15.4			
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		11/01/23	After Casing Removed	None Noted	out			
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		11/01/23	After Casing Removed	caved @ 12.0	out			
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.								
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To							
0	1A	0.0	1.0	SS/14	1-2-4-9		Topsoil and Organic Material (moist)			6
1	1B	1.0	2.0				Light Brown SILT, trace fine SAND (moist, medium stiff)			
2	2	2.0	4.0	SS/20	6-7-6-7		Light Brown SILT, trace fine SAND (moist, stiff)			13
3										
4	3	4.0	6.0	SS/18	2-2-3-3		Similar as above (moist, medium stiff)			5
5										
6	4	6.0	8.0	SS/19	2-3-5-7		Brown/Grey SILT, little cmf GRAVEL, little fine SAND (moist, stiff)			8
7										
8	5	8.0	10.0	SS/18	6-9-9-9		Brown/Grey SILT, some cmf GRAVEL, little fine SAND (moist, very stiff)			18
9										
10							<i>See Remark 1</i>			
11										
12										
13										
14	6	13.5	15.0	SS/12	9-7-38		Dark Grey/Brown cmf GRAVEL and weathered ROCK fragments, little SILT (moist, compact) <i>Auger refusal @ 15.4'</i>			45
15							Bottom of Boring @ 15.4'			
16										
17										
18										
19										
20										


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Installed well at depth of 10.0' with 5.0' screen and 5.0' riser.

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-380	<b>Page No.</b> 1 of 1	<b>Report No.</b> 28062B-03-1223
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll			<b>Location:</b> See Exploration Location Plan		<b>Date Started</b> 10/13/23	<b>Date Finished</b> 10/13/23	<b>Surface Elev.</b> 391.0'
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> A. Linstruth <b>Driller:</b> J. Winks <b>Inspector:</b> <b>Drill Rig:</b> CME 55 <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				10/13/23	While Drilling	16.5	19.0		
				10/13/23	Before Casing Removed	16.5	19.0		
				10/13/23	After Casing Removed	None Noted	out		
				10/13/23	After Casing Removed	caved @ 9.5	out		
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> <b>From</b> <b>To</b>		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse</b> <b>m - medium</b> <b>f - fine</b>	<b>and - 35 to 50% / some - 20 to 35%</b> <b>little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1	0.0	2.0	SS/17	1-2-2-4		Brown SILT, little mf SAND (moist, medium stiff)	4	
1									
2	2	2.0	4.0	SS/19	5-7-8-9		Brown SILT, little fine SAND (moist, very stiff)	15	
3									
4	3	4.0	6.0	SS/1	4-5-7-7		Brown cmf GRAVEL, trace cmf SAND, trace SILT (moist, medium compact)	12	
5									
6	4	6.0	8.0	SS/19	5-4-4-5		Brown SILT and fine SAND (wet, stiff)	8	
7									
8	5	8.0	10.0	SS/17	3-9-5-5		Brown fine SAND and SILT (wet, medium compact)	14	
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/8	1-3-5		Grey/Brown cmf SAND, some SILT, little mf GRAVEL (wet, loose) <i>Augers gravelly beginning @ 14.0'</i>	8	
15									
16									
17									
18									
19	7	18.5	19.0	SS/5	44-100@0"	19.0'	Grey SILT and ROCK fragments (moist, hard) <i>Auger refusal @ 19.0'</i>	100+	
20							Bottom of Boring @ 19.0'		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> B-382					
						<b>Page No.</b> 1 of 1					
						<b>Report No.</b> 28062B-03-1223					
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started</b> 10/13/23									
<b>Client:</b> Ramboll		<b>Date Finished</b> 10/13/23									
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.</b> 386.7'									
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b> A. Linstruth <b>Driller:</b> J. Winks <b>Inspector:</b> <b>Drill Rig:</b> CME 55 <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 ¼" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b> 10/13/23 10/13/23 10/13/23 10/13/23		<b>Time</b> While Drilling Before Casing Removed After Casing Removed After Casing Removed		<b>Depth (Ft.)</b> 13.5 15.9 6.2 caved @ 7.1		<b>Casing At (Ft.)</b> 13.5 18.4 out	
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse m - medium f - fine</b>		<b>and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%</b>		<b>SPT "N" or RQD %</b>
0	1	0.0	2.0	SS/16	1-1-5-3		Brown SILT, some fine SAND (wet, medium stiff)			6	
1											
2	2	2.0	4.0	SS/19	3-4-4-3		Similar as above (wet, stiff)			8	
3											
4	3	4.0	6.0	SS/11	3-3-3-2		Similar as above (wet, medium stiff)			6	
5											
6	4A	6.0	7.5	SS/15	3-2-3-13		Similar as above (wet, medium stiff)			5	
7											
8	5A	7.5	8.0	SS/15	10-12-13-8		Brown cmf SAND, some SILT, little mf GRAVEL (moist)		25		
9	5B	8.0	9.5			Brown cmf SAND, little mf GRAVEL, trace SILT (moist, medium compact)					
10		9.5	10.0			Grey cmf SAND and mf GRAVEL, trace SILT (moist)					
11											
12											
13											
14	6A	13.5	14.5	SS/11	18-23-93		Grey cmf SAND, some SILT, little mf GRAVEL (wet, very compact)			116	
15											
16											
17											
18											
19	7	18.4	18.4	SS/0	100@0"		Grey SILT and ROCK fragments (wet) <i>Hard drilling from 15.0' to 18.4'</i>  <i>Auger refusal @ 18.4'</i> <i>No Recovery</i>			100+	
20							Bottom of Boring @ 18.4'				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



6035 Corporate Drive  
 East Syracuse, NY 13057  
 Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-384</b>
<b>Page No.</b>	1 of 2
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	10/19/23
<b>Date Finished</b>	10/19/23
<b>Surface Elev.</b>	392.6'

<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

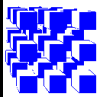
METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	J. Winks	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	R. Casatelli	<b>Casing Hammer:</b>		10/19/23	While Drilling	7.0	18.5
<b>Inspector:</b>		<b>Other:</b>		10/19/23	Before Casing Removed	7.4	21.3
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	2" OD Split Barrel	10/19/23	After Casing Removed	8.0	out
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	10/19/23	After Casing Removed	caved @ 12.7	out
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	1.0	SS/14	1-1-4-5		Topsoil and Organic Material (moist)		5
1	1B	1.0	2.0				Light Brown SILT, trace fine SAND (moist, medium stiff)		
2	2	2.0	4.0	SS/16	9-7-8-7		Light Brown SILT, trace fine SAND (moist, very stiff)		15
3									
4	3	4.0	6.0	SS/12	4-4-4-6		Similar as above (moist, stiff)		8
5									
6	4	6.0	8.0	SS/19	5-5-4-3		Similar as above (moist, stiff)		9
7									
8	5	8.0	10.0	SS/15	3-4-5-7		Similar as above (moist, stiff)		9
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/16	1-3-4		Light Grey SILT, trace fine SAND (moist, medium stiff)		7
15									
16									
17									
18									
19	7	18.5	20.0	SS/14	1-20-32		Dark Grey weathered ROCK fragments, little SILT (wet)		52
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**





**CME**  
Associates, Inc.

6035 Corporate Drive  
East Syracuse, NY 13057  
Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-384</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	21.3	21.3	SS/0	100@0"		Continued from Page 1		100+
21							<i>Auger refusal @ 21.3'</i>		
22							<i>No Recovery</i>		
23							Bottom of Boring @ 21.3'		
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b>	<b>B-391</b>	
<b>Project Name:</b> Micron Campus, Clay, New York							<b>Page No.</b>	1 of 1	
<b>Client:</b> Ramboll							<b>Report No.</b>	28062B-03-1223	
<b>Location:</b> See Exploration Location Plan							<b>Date Started</b>	10/31/23	
							<b>Date Finished</b>	11/01/23	
							<b>Surface Elev.</b>	393.0'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> R. Casatelli		<b>Casing Hammer:</b>		10/31/23	While Drilling	4.2	13.5		
<b>Inspector:</b>		<b>Other:</b>		11/01/23	Before Casing Removed	3.0	18.5		
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		11/01/23	After Casing Removed	Well Installed	out		
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		11/01/23	After Casing Removed	N/A	out		
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse m - medium f - fine</b>	<b>and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1A	0.0	0.5	SS/16	WH-2-3-4		Topsoil and Organic Material (moist)		5
1	1B	0.5	2.0				Light Brown/Grey SILT, trace fine SAND, trace CLAY (moist, medium stiff)		
2	2	2.0	4.0	SS/16	3-5-5-5		Light Brown/Grey SILT, trace fine SAND, trace CLAY (moist, stiff)		10
3									
4	3	4.0	6.0	SS/24	4-4-5-5		Light Brown SILT, trace fine SAND (moist, stiff)		9
5									
6	4	6.0	8.0	SS/24	4-3-4-3		Similar as above (moist, medium stiff)		7
7									
8	5	8.0	10.0	SS/20	2-3-3-4		Similar as above (wet, medium stiff)		6
9									
10							See Remark 1		
11									
12									
13									
14	6	13.5	15.0	SS/6	4-3-2		Grey SILT, little cmf GRAVEL, trace fine SAND (moist, medium stiff) Low Recovery		5
15									
16									
17									
18									
19	7	18.5	19.8	SS/12	44-68-100@3"		Dark Grey weathered ROCK fragments, little SILT (moist)		100+
20							Bottom of Boring @ 19.8'		


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Installed well in hole; 5.0' screen at depth of 10.0'

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> B-400	<b>Page No.</b> 1 of 1
<b>Project Name:</b> Micron Campus, Clay, New York								<b>Report No.</b> 28062B-03-1223	<b>Date Started</b> 11/02/23
<b>Client:</b> Ramboll								<b>Date Finished</b> 11/02/23	<b>Surface Elev.</b> 399.6'
<b>Location:</b> See Exploration Location Plan									
<b>METHODS OF INVESTIGATION</b>						<b>GROUNDWATER OBSERVATIONS</b>			
<b>Driller:</b> B. Fletcher <b>Driller:</b> R. Casatelli <b>Inspector:</b> <b>Drill Rig:</b> CME 550X <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> NQ-Core <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				11/02/23	While Drilling	None Noted	18.8		
				11/02/23	Before Casing Removed	None Noted	18.8		
				11/02/23	After Casing Removed	Cored	out		
				11/02/23	After Casing Removed	N/A	out		
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>			
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse</b> <b>m - medium</b> <b>f - fine</b>	<b>and - 35 to 50% / some - 20 to 35%</b> <b>little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1A	0.0	1.0	SS/15	1-1-4-5		Topsoil and Organic Material (moist)		5
1	1B	1.0	2.0				Light Brown/Grey SILT, trace fine SAND, trace ROOTS (moist, medium stiff)		
2	2	2.0	4.0	SS/17	5-5-5-10		Light Brown SILT, trace fine SAND (moist, stiff)		10
3									
4	3	4.0	6.0	SS/22	5-6-4-4		Light Brown SILT, little cmf GRAVEL, little cmf SAND (moist, stiff)		10
5									
6	4	6.0	8.0	SS/17	5-11-15-16		Light Brown SILT, little cmf SAND, trace cmf GRAVEL (moist, very stiff)		26
7									
8	5	8.0	8.7	SS/6	20-100@2"		Dark Grey weathered ROCK fragments, little SILT, little cmf SAND (wet) <i>Auger refusal @ 8.8'. Set up to core.</i>		100+
9	R1	8.8	13.8	C/59	NQ-Core		Dark Grey/Black DOLOSTONE with interbedded Shale layers (<1/8" to 1" thick) throughout, moderately weathered, laminated to medium bedded, medium hard to hard. <i>Horizontal breaks with weathered Shale layers @ 10.1', 10.4', 12.4' and 12.6'.</i> Recovery: 59"/60" = 98%   RQD: 38"/60" = 63%		63%
10							16 Pieces, 2" Chips and fragments 2.0 min/ft, no water loss Coring conducted in 5th gear, 2400 rpm, 400 psi down pressure.		
11							Dark Grey/Black DOLOSTONE with interbedded Shale layers (<1/8" to 1" thick) throughout, slightly weathered, laminated to thinly bedded, medium soft to hard.		
12							Weathered and broken zone @ 17.8' to 18.8'. Recovery: 59"/60" = 98%   RQD: 45"/60" = 75%		
13							8 Pieces, 6" Chips and fragments 1.30 min/ft, no water loss Coring conducted in 5th gear, 2400 rpm, 400 psi down pressure. See Remark 1		
14	R2	13.8	18.8	C/59	NQ-Core				75%
15									
16									
17									
18									
19							Bottom of Boring @ 18.8'		
20									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Installed well at depth of 10.0' with 5.0' screen and 5.0' riser.

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-401	<b>Page No.</b> 1 of 1		
<b>Project Name:</b> Micron Campus, Clay, New York							<b>Report No.</b> 28062B-03-1223	<b>Date Started</b> 10/26/23		
<b>Client:</b> Ramboll							<b>Date Finished</b> 10/26/23	<b>Surface Elev.</b> 400.7'		
<b>Location:</b> See Exploration Location Plan										
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b> H. Lyon		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>			
<b>Driller:</b> K. Crandall		<b>Casing Hammer:</b>		10/26/23	While Drilling	4.9	3.5			
<b>Inspector:</b> A. Sharma, EIT		<b>Other:</b>		10/26/23	Before Casing Removed	5.5	8.5			
<b>Drill Rig:</b> CME 45		<b>Soil Sampler:</b> 2" OD Split Barrel		10/26/23	After Casing Removed	4.8	out			
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		10/26/23	After Casing Removed	caved @ 8.3	out			
<b>Rod Size:</b> AW		<b>Hammer Fall:</b> 30 in.								
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To							
0	1A	0.0	0.5	SS/16	1-1-3-7		Topsoil and Organic Material (moist)		4	
1	1B	0.5	2.0				Brown mottled SILT, trace fine SAND, trace CLAY (moist, medium stiff)			
2	2	2.0	4.0	SS/16	5-6-6-5		Brown mottled SILT, little CLAY, trace fine SAND (wet, stiff)		12	
3										
4	3	4.0	6.0	SS/12	3-1-1-10		Brown SILT, some cmf SAND, trace mf GRAVEL, trace CLAY (wet, soft)		2	
5										
6	4	6.0	8.0	SS/11	10-17-17-14		Brown SILT, some mf GRAVEL, some cmf SAND (moist, hard) <i>Augered gravelly beginning @ 6.5'</i>		34	
7										
8	5	8.0	9.2	SS/8	40-12-50@2"		Grey weathered ROCK chips and fragments, little mf GRAVEL, trace SILT, trace SAND (wet) <i>Auger refusal @ 9.2'</i>		50+	
9							Bottom of Boring @ 9.2'			
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-402					
				<b>Page No.</b> 1 of 1					
				<b>Report No.</b> 28062B-03-1223					
<b>Project Name:</b>	Micron Campus, Clay, New York			<b>Date Started</b> 10/26/23					
<b>Client:</b>	Ramboll			<b>Date Finished</b> 10/26/23					
<b>Location:</b>	See Exploration Location Plan			<b>Surface Elev.</b> 398.3					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	H. Lyon	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b>	K. Crandall	<b>Casing Hammer:</b>		10/26/23	While Drilling	None Noted	-		
<b>Inspector:</b>	A. Sharma, EIT	<b>Other:</b>		10/26/23	Before Casing Removed	None Noted	-		
<b>Drill Rig:</b>	CME 45	<b>Soil Sampler:</b>	2" OD Split Barrel	10/26/23	After Casing Removed	None Noted	out		
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.	10/26/23	After Casing Removed	caved @ 5.1	out		
<b>Rod Size:</b>	AW	<b>Hammer Fall:</b>	30 in.						
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
0	1A	0.0	0.8	SS/10	1-1-2-2		Topsoil and Organic Material (moist)		3
1	1B	0.8	2.0				Brown SILT, little cmf SAND (moist, soft)		
2	2	2.0	4.0	SS/19	2-3-4-5		Brown mottled SILT, some cmf SAND, little CLAY, trace mf GRAVEL (moist, medium stiff)		7
3									
4	3	4.0	5.3	SS/9	2-4-50@3"		Brown mottled SILT and cmf SAND, little mf GRAVEL, little CLAY (moist, hard)		50+
5							Auger refusal @ 5.2'		
6							Bottom of Boring @ 5.2'		
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-403	<b>Page No.</b> 1 of 1	<b>Report No.</b> 28062B-03-1223																				
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started</b> 10/25/23		<b>Date Finished</b> 10/25/23		<b>Surface Elev.</b> 400.1'																				
<b>Client:</b> Ramboll		<b>Methods of Investigation</b>		<b>GROUNDWATER OBSERVATIONS</b>																						
<b>Location:</b> See Exploration Location Plan		<b>Driller:</b> H. Lyon <b>Driller:</b> K. Crandall <b>Inspector:</b> A. Sharma, EIT <b>Drill Rig:</b> CME 45 <b>Type:</b> Track <b>Rod Size:</b> AW		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Depth (Ft.)</th> <th>Casing At (Ft.)</th> </tr> </thead> <tbody> <tr> <td>10/25/23</td> <td>While Drilling</td> <td>None Noted</td> <td>-</td> </tr> <tr> <td>10/25/23</td> <td>Before Casing Removed</td> <td>None Noted</td> <td>-</td> </tr> <tr> <td>10/25/23</td> <td>After Casing Removed</td> <td>None Noted</td> <td>out</td> </tr> <tr> <td>10/25/23</td> <td>After Casing Removed</td> <td>caved @ 5.6</td> <td>out</td> </tr> </tbody> </table>	Date	Time	Depth (Ft.)	Casing At (Ft.)	10/25/23	While Drilling	None Noted	-	10/25/23	Before Casing Removed	None Noted	-	10/25/23	After Casing Removed	None Noted	out	10/25/23	After Casing Removed	caved @ 5.6	out
Date	Time	Depth (Ft.)	Casing At (Ft.)																							
10/25/23	While Drilling	None Noted	-																							
10/25/23	Before Casing Removed	None Noted	-																							
10/25/23	After Casing Removed	None Noted	out																							
10/25/23	After Casing Removed	caved @ 5.6	out																							
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>																						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %																	
		From	To																							
0	1	0.0	2.0	SS/15	1-1-1-5		Light Brown SILT, little cmf SAND, trace ROOTS (moist, soft)	2																		
1																										
2	2	2.0	4.0	SS/16	7-5-4-6		Brown SILT, some cmf SAND, trace mf GRAVEL (moist, stiff)	9																		
3																										
4	3	4.0	6.0	SS/10	3-2-1-2		Brown mottled SILT, some cmf SAND, little fine GRAVEL, trace CLAY (wet, soft)	3																		
5																										
6	4	6.0	6.2	SS/2	50@2"		Brown/Grey mf GRAVEL, some SILT, trace cmf SAND (wet, very compact)	50+																		
7							Bottom of Boring @ 6.2'																			
8																										
9																										
10																										
11																										
12																										
13																										
14																										
15																										
16																										
17																										
18																										
19																										
20																										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-404					
				<b>Page No.</b> 1 of 1					
<b>Project Name:</b> Micron Campus, Clay, New York				<b>Report No.</b> 28062B-03-1223					
<b>Client:</b> Ramboll				<b>Date Started</b> 10/26/23					
<b>Location:</b> See Exploration Location Plan				<b>Date Finished</b> 10/26/23					
				<b>Surface Elev.</b> 399.0'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	H. Lyon	<b>Casing:</b>	3 1/4" ID H.S.A.						
<b>Driller:</b>	K. Crandall	<b>Casing Hammer:</b>							
<b>Inspector:</b>	A. Sharma, EIT	<b>Other:</b>	<b>Date</b>	<b>Time</b>					
<b>Drill Rig:</b>	CME 45	<b>Soil Sampler:</b>	10/26/23	While Drilling					
<b>Type:</b>	Track	<b>Hammer Wt:</b>	10/26/23	Before Casing Removed					
<b>Rod Size:</b>	AW	<b>Hammer Fall:</b>	10/26/23	After Casing Removed					
				Depth (Ft.)					
				Casing At (Ft.)					
				2.7					
				2.8					
				3.0					
				2" OD Split Barrel					
				140 lbs.					
				30 in.					
				After Casing Removed					
				caved @ 5.0					
				out					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5	SS/15	1-2-4-3		Topsoil and Organic Material (moist)		6
1	1B	0.5	2.0				Brown/Reddish SILT, little cmf SAND, little mf GRAVEL (moist, medium stiff)		
2	2	2.0	4.0	SS/17	4-3-3-3		Brown SILT, some cmf SAND, little mf GRAVEL, trace CLAY (wet, medium stiff)		6
3									
4	3	4.0	5.6	SS/9	5-12-30-50@1"		Dark Grey weathered ROCK fragments, little mf GRAVEL, little SILT (wet)		42
5							Auger refusal @ 5.5'		
6							Bottom of Boring @ 5.6'		
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



6035 Corporate Drive  
 East Syracuse, NY 13057  
 Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-405</b>
<b>Page No.</b>	1 of 1
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	10/26/23
<b>Date Finished</b>	10/26/23
<b>Surface Elev.</b>	398.3'

<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan


METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	H. Lyon	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	K. Crandall	<b>Casing Hammer:</b>		10/26/23	While Drilling	None Noted	-
<b>Inspector:</b>	A. Sharma, EIT	<b>Other:</b>		10/26/23	Before Casing Removed	None Noted	-
<b>Drill Rig:</b>	CME 45	<b>Soil Sampler:</b>	2" OD Split Barrel	10/26/23	After Casing Removed	None Noted	out
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.	10/26/23	After Casing Removed	caved @ 4.2	out
<b>Rod Size:</b>	AW	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5	SS/13	1-1-1-3		Topsoil and Organic Material (moist)		2
1	1B	0.5	2.0				Brown SILT, some cmf SAND, trace fine GRAVEL (moist, soft)		
2	2	2.0	3.8	SS/5	2-6-8-50@3"		Brown mottled SILT, some cmf SAND, some mf GRAVEL (moist, stiff)		14
3									
4	3	4.0	4.8	SS/4	4-50@3"		Grey cmf GRAVEL, some cmf SAND, little SILT (moist, very compact)		50+
5							<i>Auger refusal @ 4.8'</i>		
6							Bottom of Boring @ 4.8'		
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-406					
				<b>Page No.</b> 1 of 1					
				<b>Report No.</b> 28062B-03-1223					
<b>Project Name:</b>	Micron Campus, Clay, New York			<b>Date Started</b> 10/26/23					
<b>Client:</b>	Ramboll			<b>Date Finished</b> 10/26/23					
<b>Location:</b>	See Exploration Location Plan			<b>Surface Elev.</b> 397.7'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	H. Lyon	<b>Casing:</b>	3 1/4" ID H.S.A.						
<b>Driller:</b>	K. Crandall	<b>Casing Hammer:</b>	<b>Date</b>	<b>Time</b>					
<b>Inspector:</b>	A. Sharma, EIT	<b>Other:</b>	10/26/23	While Drilling					
<b>Drill Rig:</b>	CME 45	<b>Soil Sampler:</b>	10/26/23	Before Casing Removed					
<b>Type:</b>	Track	<b>Hammer Wt:</b>	10/26/23	After Casing Removed					
<b>Rod Size:</b>	AW	<b>Hammer Fall:</b>	10/26/23	After Casing Removed					
				Depth (Ft.)					
				Casing At (Ft.)					
				None Noted					
				None Noted					
				None Noted					
				out					
				caved @ 4.2					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
0	1A	0.0	0.5	SS/10	1-3-3-5		Topsoil and Organic Material (moist)		6
1	1B	0.5	2.0				Brown SILT, some mf GRAVEL, little cmf SAND (moist, medium stiff)		
2	2	2.0	4.0	SS/15	3-4-5-11		Brown mottled SILT, some cmf SAND, little mf GRAVEL (wet, stiff)		9
3									
4	3	4.0	4.1	SS/1	50@1"		Brown/Grey SILT and cmf SAND, trace mf GRAVEL (wet, hard) <i>Auger refusal @ 4.2'</i>		50+
5							Bottom of Boring @ 4.2'		
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



6035 Corporate Drive  
 East Syracuse, NY 13057  
 Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-407</b>
<b>Page No.</b>	1 of 1
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	10/26/23
<b>Date Finished</b>	10/26/23
<b>Surface Elev.</b>	397.0'


**Project Name:** Micron Campus, Clay, New York  
**Client:** Ramboll  
**Location:** See Exploration Location Plan

METHODS OF INVESTIGATION			GROUNDWATER OBSERVATIONS				
<b>Driller:</b>	H. Lyon	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	K. Crandall	<b>Casing Hammer:</b>		10/26/23	While Drilling	None Noted	-
<b>Inspector:</b>	A. Sharma, EIT	<b>Other:</b>		10/26/23	Before Casing Removed	None Noted	-
<b>Drill Rig:</b>	CME 45	<b>Soil Sampler:</b>	2" OD Split Barrel	10/26/23	After Casing Removed	None Noted	out
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.	10/26/23	After Casing Removed	caved @ 4.2	out
<b>Rod Size:</b>	AW	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5	SS/10	1-1-8-4		Topsoil and Organic Material (moist)		9
1	1B	0.5	2.0				Brown cmf SAND and mf GRAVEL, some SILT (moist, loose)		
2	2	2.0	4.0	SS/16	2-3-6-15		Brown mottled SILT, some cmf SAND, little mf GRAVEL, little CLAY (moist, stiff)		9
3									
4	3	4.0	5.0	SS/9	1-6-50@0"		Dark Grey weathered ROCK fragments and SILT (moist)		50+
5							Auger refusal @ 5.5'		
6							Bottom of Boring @ 5.5'		
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-408	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-03-1223
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll			<b>Location:</b> See Exploration Location Plan		<b>Date Started</b> 11/02/23	<b>Date Finished</b> 11/02/23	<b>Surface Elev.</b> 392.3'
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> H. Lyon		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> K. Crandall		<b>Casing Hammer:</b>		11/02/23	While Drilling	6.8	22.5		
<b>Inspector:</b> A. Sharma, EIT		<b>Other:</b>		11/02/23	Before Casing Removed	8.2	24.1		
<b>Drill Rig:</b> CME 45		<b>Soil Sampler:</b> 2" OD Split Barrel		11/02/23	After Casing Removed	None Noted	out		
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		11/02/23	After Casing Removed	caved @ 6.0	out		
<b>Rod Size:</b> AW		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
0	1	0.0	2.0	SS/22	1-1-3-4		Brown mottled SILT, trace mf SAND, trace CLAY, trace ROOTS (wet, medium stiff)		4
1									
2	2	2.0	4.0	SS/17	4-3-4-4		Brown SILT, little CLAY, trace fine SAND (wet, medium stiff)		7
3									
4	3	4.0	6.0	SS/18	5-6-7-8		Brown SILT, trace fine SAND, trace CLAY (wet, stiff)		13
5									
6	4	6.0	8.0	SS/16	9-10-11-12		Brown SILT, trace fine SAND (wet, very stiff)		21
7									
8	5	8.0	10.0	SS/18	7-9-8-10		Similar as above (wet, very stiff)		17
9									
10									
11									
12									
13	6	13.0	15.0	SS/16	5-6-4-6		Grey SILT, little CLAY (wet, stiff)		10
14									
15									
16									
17									
18	7	18.0	20.0	SS/9	3-4-6-6		Grey SILT, some CLAY, little cmf SAND (wet, stiff)		10
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



6035 Corporate Drive  
 East Syracuse, NY 13057  
 Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-408</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1123


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20							Continued from Page 1		
21									
22									
23	8	23.0	23.9	SS/4	12-50@5"		<i>Augered gravelly beginning @ 22.5'</i> Grey ROCK fragments, trace cmf SAND (wet)		50+
24							<i>Auger refusal @ 24.1'</i> Bottom of Boring @ 24.1'		
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> B-409 <b>Page No.</b> 1 of 2 <b>Report No.</b> 28062B-03-1223					
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 11/02/23		<b>Client:</b> Ramboll		<b>Date Finished:</b> 11/02/23					
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 393.5'		<b>METHODS OF INVESTIGATION</b>							
<b>Driller:</b> H. Lyon <b>Casing:</b> 3 1/4" ID H.S.A. <b>Driller:</b> K. Crandall <b>Casing Hammer:</b> <b>Inspector:</b> A. Sharma, EIT <b>Other:</b> <b>Drill Rig:</b> CME 45 <b>Soil Sampler:</b> 2" OD Split Barrel <b>Type:</b> Track <b>Hammer Wt:</b> 140 lbs. <b>Rod Size:</b> AW <b>Hammer Fall:</b> 30 in.				<b>GROUNDWATER OBSERVATIONS</b>							
				<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>	
				11/02/23		While Drilling		7.7		8.0	
				11/02/23		Before Casing Removed		4.3		23	
				11/02/23		After Casing Removed		4.9		out	
				11/02/23		After Casing Removed		caved @ 5.9		out	
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From      To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
0	1	0.0	1.0	SS/12	1-2-3-3		Brown SILT, trace CLAY, trace fine SAND, trace ROOTS (moist, medium stiff)				5
1											
2	2	2.0	4.0	SS/15	3-4-4-5		Brown mottled SILT, some CLAY, trace fine SAND (wet, stiff)				8
3											
4	3	4.0	6.0	SS/16	3-4-4-5		Brown mottled SILT, little CLAY, trace fine SAND (wet, stiff)				8
5											
6	4	6.0	8.0	SS/14	4-5-5-5		Brown SILT, trace fine SAND, trace CLAY (wet, stiff)				10
7											
8	5	8.0	10.0	SS/20	4-7-6-8		Brown SILT, trace mf SAND, trace CLAY (wet, stiff)				13
9											
10											
11											
12							<i>Augered hard beginning @ 11.5'</i>				
13	6	13.0	15.0	SS/12	3-4-5-4		Grey SILT, little CLAY, trace fine SAND (wet, stiff)				9
14											
15											
16											
17											
18	7	18.0	20.0	SS/16	WH-1-2-3		Grey CLAY and SILT, little cmf SAND, little mf GRAVEL (wet, soft)				3
19											
20							Continued on Page 2				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-409</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %	
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
20	8	23.0	23.2	SS/0	50@2"		Continued from Page 1 <i>Augered gravelly beginning @ 20.5'</i>			
21										
22										
23							<i>No Recovery. Auger refusal @ 23.4'</i>			50+
24							<i>Bottom of Boring @ 23.4'</i>			
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

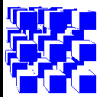
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-410 <b>Page No.</b> 1 of 2 <b>Report No.</b> 28062B-03-1223					
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 10/30/23							
<b>Client:</b> Ramboll		<b>Date Finished:</b> 10/30/23							
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 393.3'							
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b> H. Lyon	<b>Casing:</b> 3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>				
<b>Driller:</b> K. Crandall	<b>Casing Hammer:</b>	10/30/23	While Drilling	4.6	7.5				
<b>Inspector:</b> A. Sharma, EIT	<b>Other:</b>	10/30/23	Before Casing Removed	22.4	23				
<b>Drill Rig:</b> CME 45	<b>Soil Sampler:</b> 2" OD Split Barrel	10/30/23	After Casing Removed	11.5	out				
<b>Type:</b> Track	<b>Hammer Wt:</b> 140 lbs.	10/30/23	After Casing Removed	caved @ 12.0	out				
<b>Rod Size:</b> AW	<b>Hammer Fall:</b> 30 in.								
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/14	1-1-4-5		Grey/Brown SILT, little mf SAND, trace CLAY (wet, medium stiff)	5	
1									
2	2	2.0	4.0	SS/15	5-6-6-5		Brown mottled SILT, little CLAY, trace fine SAND (wet, stiff)	12	
3									
4	3	4.0	6.0	SS/19	2-3-3-6		Brown SILT, trace fine SAND (wet, medium stiff)	6	
5									
6	4	6.0	8.0	SS/17	7-6-7-6		Similar as above (wet, stiff)	13	
7									
8	5	8.0	10.0	SS/21	4-6-6-8		Brown mottled SILT, trace CLAY, trace fine SAND (wet, stiff)	12	
9									
10									
11									
12									
13	6	13.0	15.0	SS/20	12-12-8-8		Grey/Brown SILT, little cmf SAND, trace fine GRAVEL (wet, very stiff)	20	
14									
15									
16									
17									
18	7	18.0	20.0	SS/16	2-5-9-5		Grey SILT, some CLAY, trace cmf SAND (wet, stiff)	14	
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-410</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.0	24.8	SS/8	5-8-8-50@4"		Continued from Page 1 <i>Augered gravelling beginning @ 20.5'</i>		16
21							<i>Augered hard beginning @ 22.4'</i>		
22							Grey cmf SAND and mf GRAVEL, trace SILT (wet, medium compact)		
23							<i>Auger refusal @ 25.0'</i>		
24							Bottom of Boring @ 25.0'		
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**





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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-411</b>
<b>Page No.</b>	1 of 2
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	10/30/23
<b>Date Finished</b>	10/30/23
<b>Surface Elev.</b>	393.2'

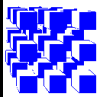
<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	H. Lyon	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	K. Crandall	<b>Casing Hammer:</b>		10/30/23	While Drilling	9.3	13.0
<b>Inspector:</b>	A. Sharma, EIT	<b>Other:</b>		10/30/23	Before Casing Removed	14.4	22.7
<b>Drill Rig:</b>	CME 45	<b>Soil Sampler:</b>	2" OD Split Barrel	10/30/23	After Casing Removed	9.8	out
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.	10/30/23	After Casing Removed	caved @ 12.1	out
<b>Rod Size:</b>	AW	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/17	1-1-3-6		Brown mottled SILT, little cmf SAND, trace ROOTS (moist, medium stiff)	4	
1									
2	2	2.0	4.0	SS/15	7-8-9-9		Brown mottled SILT, little CLAY, little fine SAND (moist, very stiff)	17	
3									
4	3	4.0	6.0	SS/22	2-3-2-4		Brown SILT, some CLAY, trace fine SAND (wet, medium stiff)	5	
5									
6	4	6.0	8.0	SS/20	5-4-5-6		Brown SILT, little CLAY, trace mf SAND (wet, stiff)	9	
7									
8	5	8.0	10.0	SS/17	3-5-11-14		Similar as above (wet, very stiff)	16	
9									
10									
11									
12									
13	6	13.0	15.0	SS/14	WH-21-42-46		Brown cmf SAND and mf GRAVEL, little SILT (wet, very compact)	63	
14									
15									
16									
17									
18	7	18.0	20.0	SS/13	17-28-25-32		Grey cmf SAND and mf GRAVEL, trace SILT (wet, very compact)	53	
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-411</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20							Continued from Page 1		
21									
22									
23							<i>Auger refusal @ 22.7'</i>		
24							Bottom of Boring @ 22.7'		
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



6035 Corporate Drive  
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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-412</b>
<b>Page No.</b>	1 of 2
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	10/30/23
<b>Date Finished</b>	10/30/23
<b>Surface Elev.</b>	392.2'

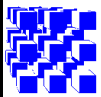
<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	H. Lyon	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	K. Crandall	<b>Casing Hammer:</b>		10/30/23	While Drilling	14.0	18.0
<b>Inspector:</b>	A. Sharma, EIT	<b>Other:</b>		10/30/23	Before Casing Removed	26.5	23.0
<b>Drill Rig:</b>	CME 45	<b>Soil Sampler:</b>	2" OD Split Barrel	10/30/23	After Casing Removed	11.8	out
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.	10/30/23	After Casing Removed	caved @ 13.7	out
<b>Rod Size:</b>	AW	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1	0.0	2.0	SS/2	1-1-1-4		Brown mottled SILT, little mf SAND, trace CLAY, trace ROOTS (moist, soft)		2
1									
2	2	2.0	4.0	SS/18	6-8-8-7		Brown mottled SILT, little fine SAND, trace CLAY (wet, very stiff)		16
3									
4	3	4.0	6.0	SS/16	4-4-3-4		Similar as above (wet, medium stiff)		7
5									
6	4	6.0	8.0	SS/18	2-2-1-2		Brown SILT, trace CLAY, trace fine SAND (wet, soft)		3
7									
8	5	8.0	10.0	SS/14	1-7-5-10		Brown/Reddish cmf SAND and SILT, some mf GRAVEL (wet, medium compact)		12
9									
10									
11									
12									
13	6	13.0	15.0	SS/18	11-12-18-32		Brown cmf SAND, some SILT, little mf GRAVEL, trace CLAY (wet, compact)		30
14									
15							<i>Augered hard beginning @ 15.2'</i>		
16									
17									
18	7	18.0	19.3	SS/21	25-40-50@4"		Grey cmf SAND and mf GRAVEL, some SILT (wet, very compact)		50+
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-412</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.0	24.9	SS/19	30-42-48-50@5"		Continued from Page 1		90
21									
22									
23									
24									
25									
26									
27									
28									
29									
30							Auger refusal @ 27.0'		
31							Bottom of Boring @ 27.0'		
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-413 <b>Page No.</b> 1 of 2 <b>Report No.</b> 28062B-03-1223					
<b>Project Name:</b>	Micron Campus, Clay, New York		<b>Date Started</b>	10/31/23					
<b>Client:</b>	Ramboll		<b>Date Finished</b>	10/31/23					
<b>Location:</b>	See Exploration Location Plan		<b>Surface Elev.</b>	386.5'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	H. Lyon	<b>Casing:</b>	3 1/4" ID H.S.A.						
<b>Driller:</b>	K. Crandall	<b>Casing Hammer:</b>	<b>Date</b>	<b>Time</b>					
<b>Inspector:</b>	A. Sharma, EIT	<b>Other:</b>	10/31/23	While Drilling					
<b>Drill Rig:</b>	CME 45	<b>Soil Sampler:</b>	10/31/23	Before Casing Removed					
<b>Type:</b>	Track	<b>Hammer Wt:</b>	10/31/23	After Casing Removed					
<b>Rod Size:</b>	AW	<b>Hammer Fall:</b>	10/31/23	After Casing Removed					
				Depth (Ft.)					
				Casing At (Ft.)					
				7.8					
				11.4					
				None Noted					
				out					
				caved @ 6.8					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1	0.0	2.0	SS/16	1-1-3-4		Grey/Brown mottled SILT, trace mf SAND, trace CLAY, trace ROOTS (moist, medium stiff)		4
1									
2	2	2.0	4.0	SS/16	4-8-6-7		Grey/Brown mottled SILT, little CLAY, trace fine SAND (moist, stiff)		14
3									
4	3	4.0	6.0	SS/19	3-2-2-4		Brown mottled SILT, some CLAY, trace fine SAND (moist, medium stiff)		4
5									
6	4	6.0	8.0	SS/24	4-6-6-6		Brown SILT, little CLAY, trace fine SAND (wet, stiff)		12
7									
8	5	8.0	10.0	SS/17	3-6-7-9		Similar as above (wet, stiff)		13
9									
10									
11									
12									
13	6	13.0	15.0	SS/18	WH-2-2-1		Grey CLAY, some cmf SAND, little SILT, trace fine GRAVEL (wet, medium stiff)		4
14									
15									
16									
17									
18	7	18.0	20.0	SS/15	6-8-8-12		<i>Augered gravelly beginning @ 17.5'</i> Grey cmf SAND and mf GRAVEL, little SILT, trace CLAY (wet, medium compact)		16
19									
20									

Continued on Page 2

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-413</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20							Continued from Page 1		
21									
22									
23	8	23.0	24.2	SS/7	27-40-50@2"		Augered gravelly beginning @ 22.7' Grey cmf SAND, some mf GRAVEL, some SILT (moist, very compact)		50+
24							Auger refusal @ 24.3'		
25							Bottom of Boring @ 24.3'		
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

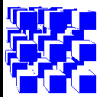
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>		<b>B-414</b>	
						<b>Page No.</b>		1 of 2	
						<b>Report No.</b>		28062B-03-1223	
<b>Project Name:</b>		Micron Campus, Clay, New York				<b>Date Started</b>		11/02/23	
<b>Client:</b>		Ramboll				<b>Date Finished</b>		11/02/23	
<b>Location:</b>		See Exploration Location Plan				<b>Surface Elev.</b>		392.0'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>		H. Lyon		<b>Casing:</b>		3 1/4" ID H.S.A.		<b>Date</b>	
<b>Driller:</b>		K. Crandall		<b>Casing Hammer:</b>				<b>Time</b>	
<b>Inspector:</b>		A. Sharma, EIT		<b>Other:</b>				<b>Depth (Ft.)</b>	
<b>Drill Rig:</b>		CME 45		<b>Soil Sampler:</b>		2" OD Split Barrel		<b>Casing At (Ft.)</b>	
<b>Type:</b>		Track		<b>Hammer Wt:</b>		140 lbs.		11/02/23	
<b>Rod Size:</b>		AW		<b>Hammer Fall:</b>		30 in.		While Drilling	
								8.8	
								12.0	
								4.9	
								caved @ 7.0	
								out	
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse		SPT "N" or RQD %
		From	To				m - medium	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
0	1	0.0	2.0	SS/17	1-1-2-3		Dark Brown SILT, trace CLAY, trace fine SAND, trace ROOTS (wet, soft)		3
1									
2	2	2.0	4.0	SS/15	4-7-7-7		Brown SILT, little CLAY, trace fine SAND (wet, stiff)		14
3									
4	3	4.0	6.0	SS/24	2-4-5-6		Brown SILT, some CLAY, trace fine SAND (wet, stiff)		9
5									
6	4	6.0	8.0	SS/16	8-9-7-7		Brown SILT, trace CLAY, trace fine SAND (wet, very stiff)		16
7									
8	5	8.0	10.0	SS/21	5-7-9-10		Similar as above (wet, very stiff)		16
9									
10									
11									
12									
13	6	13.0	15.0	SS/19	6-7-11-9		Brown SILT, trace CLAY, trace cmf SAND (wet, very stiff)		18
14									
15									
16									
17									
18	7	18.0	20.0	SS/15	WR-2-3-7		Grey SILT, some CLAY, little cmf SAND, little mf GRAVEL (wet, medium stiff)		5
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-414</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20	8	23.0	23.0	SS/0	50@0"				
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

Continued from Page 1


*Augered hard beginning @ 22.5  
No recovery. Auger refusal @ 23.0'  
Bottom of Boring @ 23.0'*

50+

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

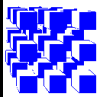
**Remarks:**



		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-415	<b>Page No.</b> 1 of 2			
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll		<b>Location:</b> See Exploration Location Plan			<b>Report No.</b> 28062B-03-1223	<b>Date Started</b> 11/01/23			
<b>Driller:</b> H. Lyon		<b>Driller:</b> K. Crandall		<b>Inspector:</b> A. Sharma, EIT		<b>Drill Rig:</b> CME 45		<b>Type:</b> Track		<b>Rod Size:</b> AW	
<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Casing Hammer:</b>		<b>Other:</b>		<b>Soil Sampler:</b> 2" OD Split Barrel		<b>Hammer Wt:</b> 140 lbs.		<b>Hammer Fall:</b> 30 in.	
<b>METHODS OF INVESTIGATION</b>						<b>GROUNDWATER OBSERVATIONS</b>					
<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>					
11/01/23		While Drilling		7.1		17.5					
11/01/23		Before Casing Removed		10.6		22.4					
11/01/23		After Casing Removed		None Noted		out					
11/01/23		After Casing Removed		caved @ 5.6		out					
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse m - medium f - fine</b>		<b>and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%</b>		<b>SPT "N" or RQD %</b>
0	1	0.0	2.0	SS/14	1-1-3-5		Brown mottled SILT, trace CLAY, trace fine SAND, trace ROOTS (wet, medium stiff)				4
1											
2	2	2.0	4.0	SS/15	5-5-5-5		Brown mottled SILT, little CLAY, trace mf SAND (wet, stiff)				10
3											
4	3	4.0	6.0	SS/24	2-3-3-5		Brown mottled SILT, some CLAY (wet, medium stiff)				6
5											
6	4	6.0	8.0	SS/18	7-7-7-7		Similar as above (wet, stiff)				14
7											
8	5	8.0	10.0	SS/18	6-8-10-14		Brown SILT, little CLAY, trace fine SAND (wet, very stiff)				18
9											
10											
11											
12											
13	6	13.0	15.0	SS/17	6-5-6-5		Brown/Grey SILT, little CLAY (wet, stiff)				11
14											
15											
16											
17											
18	7	18.0	20.0	SS/8	6-7-7-9		<i>Augered gravelly beginning @ 17.9'</i> Grey cmf GRAVEL, little cmf SAND, little SILT (wet, medium compact)				14
19											
20							Continued on Page 2				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-415</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	22.4	22.4	SS/0	50@0'		Continued from Page 1		50+
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-416 <b>Page No.</b> 1 of 1 <b>Report No.</b> 28062B-03-1223					
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 11/01/23							
<b>Client:</b> Ramboll		<b>Date Finished:</b> 11/01/23							
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 392.3'							
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b> H. Lyon	<b>Casing:</b> 3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>				
<b>Driller:</b> K. Crandall	<b>Casing Hammer:</b>	11/01/23	While Drilling	8.5	17.5				
<b>Inspector:</b> A. Sharma, EIT	<b>Other:</b>	11/01/23	Before Casing Removed	9.7	17.5				
<b>Drill Rig:</b> CME 45	<b>Soil Sampler:</b> 2" OD Split Barrel	11/01/23	After Casing Removed	6.4	out				
<b>Type:</b> Track	<b>Hammer Wt:</b> 140 lbs.	11/01/23	After Casing Removed	caved @ 10.5	out				
<b>Rod Size:</b> AW	<b>Hammer Fall:</b> 30 in.								
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/15	1-1-3-4		Brown SILT, trace CLAY, trace fine SAND, trace ROOTS (wet, medium stiff)	4	
1									
2	2	2.0	4.0	SS/16	4-5-6-6		Brown mottled SILT, little CLAY, trace fine SAND (wet, stiff)	11	
3									
4	3	4.0	6.0	SS/21	3-3-2-4		Brown SILT, some CLAY, trace fine SAND (wet, medium stiff)	5	
5									
6	4	6.0	8.0	SS/18	4-5-6-7		Brown SILT, trace CLAY, trace fine SAND (wet, stiff)	11	
7									
8	5	8.0	10.0	SS/17	6-11-12-12		Brown SILT, trace cmf SAND, trace fine GRAVEL (wet, very stiff)	23	
9									
10							<i>Augered gravelly beginning @ 10.5'</i>		
11									
12									
13	6	13.0	15.0	SS/20	32-48-45-47		Grey/Brown cmf SAND and mf GRAVEL, some SILT (moist, very compact)	93	
14									
15									
16									
17									
18	7	18.0	19.2	SS/14	22-40-50@2"		Grey/Brown mf GRAVEL and cmf SAND, little SILT (wet, very compact)	50+	
19							<i>Augered gravelly beginning @ 19.7'. Auger refusal @ 19.9'</i>		
20							<i>Bottom of Boring @ 19.9'</i>		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-417 <b>Page No.</b> 1 of 2 <b>Report No.</b> 28062B-03-1223					
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 11/01/23							
<b>Client:</b> Ramboll		<b>Date Finished:</b> 11/01/23							
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 388.8'							
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b> H. Lyon	<b>Casing:</b> 3 1/4" ID H.S.A.	<b>Date:</b>	<b>Time:</b>	<b>Depth (Ft.):</b>	<b>Casing At (Ft.):</b>				
<b>Driller:</b> K. Crandall	<b>Casing Hammer:</b>	11/01/23	While Drilling	6.7	8.0				
<b>Inspector:</b> A. Sharma, EIT	<b>Other:</b>	11/01/23	Before Casing Removed	24.1	23.5				
<b>Drill Rig:</b> CME 45	<b>Soil Sampler:</b> 2" OD Split Barrel	11/01/23	After Casing Removed	None Noted	out				
<b>Type:</b> Track	<b>Hammer Wt:</b> 140 lbs.	11/01/23	After Casing Removed	caved @ 5.4	out				
<b>Rod Size:</b> AW	<b>Hammer Fall:</b> 30 in.								
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/15	1-1-3-5		Brown SILT, trace fine SAND, trace CLAY, trace ROOTS (wet, medium stiff)	4	
1									
2	2	2.0	4.0	SS/17	4-6-5-5		Brown SILT, trace CLAY, trace mf SAND (wet, stiff)	11	
3									
4	3	4.0	6.0	SS/20	1-3-5-5		Brown SILT, some CLAY, trace fine SAND (wet, stiff)	8	
5									
6	4	6.0	8.0	SS/19	4-5-5-6		Similar as above (wet, stiff)	10	
7									
8	5	8.0	10.0	SS/20	3-5-6-5		Brown SILT, some CLAY, trace fine SAND (wet, stiff)	11	
9									
10									
11									
12									
13	6	13.0	15.0	SS/15	3-3-5-8		Brown/Reddish SILT, some cmf SAND, little mf GRAVEL (wet, stiff)	8	
14									
15									
16									
17							Augered gravelly @ 16.5'		
18	7	18.0	20.0	SS/8	11-15-9-7		Grey cmf SAND and SILT, little mf GRAVEL (wet, medium compact)	24	
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-417</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.0	25.0	SS/19	35-42-42-42		Continued from Page 1		84
21									
22									
23									
24									
25									
26									
27									
28									
29									
30			Auger refusal @ 26.4'						
31			Bottom of Boring @ 26.4'						
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-418					
				<b>Page No.</b> 1 of 2					
				<b>Report No.</b> 28062B-03-1223					
<b>Project Name:</b>	Micron Campus, Clay, New York			<b>Date Started</b> 10/31/23					
<b>Client:</b>	Ramboll			<b>Date Finished</b> 10/31/23					
<b>Location:</b>	See Exploration Location Plan			<b>Surface Elev.</b> 385.4'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	H. Lyon	<b>Casing:</b>	3 1/4" ID H.S.A.						
<b>Driller:</b>	K. Crandall	<b>Casing Hammer:</b>							
<b>Inspector:</b>	A. Sharma, EIT	<b>Other:</b>							
<b>Drill Rig:</b>	CME 45	<b>Soil Sampler:</b>	2" OD Split Barrel						
<b>Type:</b>	Track	<b>Hammer Wt:</b>	140 lbs.						
<b>Rod Size:</b>	AW	<b>Hammer Fall:</b>	30 in.						
			<b>Date</b>	<b>Time</b>					
			10/31/23	While Drilling					
			10/31/23	Before Casing Removed					
			10/31/23	After Casing Removed					
			10/31/23	After Casing Removed					
				caved @ 11.4					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/18	1-1-3-5		Brown SILT, little CLAY, trace fine SAND, trace ROOTS (moist, medium stiff)		4
1									
2	2	2.0	4.0	SS/17	3-5-5-5		Brown mottled SILT, trace CLAY, trace fine SAND (moist, stiff)		10
3									
4	3	4.0	6.0	SS/22	2-2-3-4		Brown mottled SILT, little CLAY, trace fine SAND (wet, medium stiff)		5
5									
6	4	6.0	8.0	SS/24	5-7-7-6		Brown SILT, trace CLAY, trace fine SAND (wet, stiff)		14
7									
8	5	8.0	10.0	SS/12	4-6-6-6		Brown/Grey mottled SILT, little CLAY, trace fine SAND (wet, stiff)		12
9									
10									
11									
12									
13	6	13.0	15.0	SS/16	8-9-7-4		Grey SILT and CLAY (wet, very stiff)		16
14									
15									
16									
17									
18	7	18.0	20.0	SS/20	2-2-1-2		Grey CLAY and SILT, little cmf SAND, trace fine GRAVEL (wet, soft)		3
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
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6035 Corporate Drive  
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Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-418</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20							Continued from Page 1		
21							<i>Augered gravelly beginning @ 21.0'</i>		
22									
23	8	23.0	25.0	SS/12	12-9-10-10		Grey cmf SAND and mf GRAVEL, little SILT (wet, medium compact)		19
24									
25							<i>Augered hard beginning @ 25.9'</i>		
26									
27							<i>Auger refusal @ 27.5'</i>		
28	9	27.5	27.8	SS/2	50@3"		Grey weathered ROCK chips and fragments (wet)		50+
29							Bottom of Boring @ 27.8'		
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> B-419			
						Page No.		1 of 2	
						Report No.		28062B-03-1223	
<b>Project Name:</b> Micron Campus, Clay, New York						<b>Date Started</b> 10/31/23			
<b>Client:</b> Ramboll						<b>Date Finished</b> 10/31/23			
<b>Location:</b> See Exploration Location Plan						<b>Surface Elev.</b> 386.1'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> H. Lyon		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>			
<b>Driller:</b> K. Crandall		<b>Casing Hammer:</b>		10/31/23		While Drilling			
<b>Inspector:</b> A. Sharma, EIT		<b>Other:</b>		10/31/23		Before Casing Removed			
<b>Drill Rig:</b> CME 45		<b>Soil Sampler:</b> 2" OD Split Barrel		10/31/23		After Casing Removed			
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		10/31/23		After Casing Removed			
<b>Rod Size:</b> AW		<b>Hammer Fall:</b> 30 in.				caved @ 9.6			
						Depth (Ft.)			
						Casing At (Ft.)			
						9.7			
						13.9			
						None Noted			
						out			
						out			
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/15	1-2-5-6		Brown mottled SILT, little mf SAND, trace CLAY, trace ROOTS (moist, medium stiff)	7	
1									
2	2	2.0	4.0	SS/16	7-8-8-8		Brown mottled SILT, little CLAY, trace fine SAND (moist, very stiff)	16	
3									
4	3	4.0	6.0	SS/10	5-5-5-4		Brown/Grey SILT, little CLAY, little cmf SAND, trace fine GRAVEL (wet, stiff)	10	
5									
6	4	6.0	8.0	SS/21	3-5-8-8		Brown mottled SILT, trace fine SAND, trace CLAY (wet, stiff)	13	
7									
8	5	8.0	10.0	SS/20	3-5-6-7		Brown SILT, trace fine SAND, trace CLAY (wet, stiff)	11	
9									
10									
11									
12									
13	6	13.0	15.0	SS/18	1-3-3-3		Grey/Brown SILT, some CLAY, little cmf SAND, trace mf GRAVEL (wet, medium stiff)	6	
14									
15									
16									
17							<i>Augered gravelly beginning @ 17.0'</i>		
18	7	18.0	20.0	SS/15	11-12-10-10		Grey cmf SAND and mf GRAVEL, little SILT (wet, medium compact)	22	
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**





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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-419</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.0	23.3	SS/3	50@4"		Continued from Page 1		50+
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> <b>B-420</b>			
						Page No.		1 of 2	
						Report No.		28062B-03-1223	
<b>Project Name:</b> Micron Campus, Clay, New York						<b>Date Started</b> 11/02/23			
<b>Client:</b> Ramboll						<b>Date Finished</b> 11/02/23			
<b>Location:</b> See Exploration Location Plan						<b>Surface Elev.</b> 390.9'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>			
<b>Driller:</b> R. Casatelli		<b>Casing Hammer:</b>		11/02/23		While Drilling			
<b>Inspector:</b>		<b>Other:</b> NQ-Core		11/02/23		Before Casing Removed			
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		11/02/23		After Casing Removed			
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		11/02/23		After Casing Removed			
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.				Depth (Ft.)			
						Casing At (Ft.)			
						18.1			
						18.1			
						None Noted			
						out			
						caved @			
						out			
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/14	1-2-4-6		Light Brown/Grey SILT, trace fine SAND, trace ORGANIC MATERIAL (moist, medium stiff)		6
1									
2	2	2.0	4.0	SS/20	4-4-5-6		Light Brown/Grey SILT, trace fine SAND (moist, stiff)		9
3									
4	3	4.0	6.0	SS/16	4-3-3-3		Light Brown SILT, trace fine SAND (wet, medium stiff)		6
5									
6	4	6.0	8.0	SS/17	6-7-10-10		Similar as above (moist, very stiff)		17
7									
8	5A	8.0	9.5	SS/19	4-3-4-9		Similar as above (moist, medium stiff)		7
9									
10	5B	9.5	10.0				Red/Brown SILT, little mf SAND, little mf GRAVEL (moist)		
11									
12									
13									
14	6	13.5	15.0	SS/17	10-11-61		Light Brown SILT, little mf SAND, little cmf GRAVEL (moist, hard)		72
15									
16									
17									
18									
19	7	18.5	20.0	SS/15	3-14-30		Grey SILT, some cmf SAND, little mf GRAVEL (moist, hard)		44
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-420</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.5	25.0	SS/18	64-67-82		Continued from Page 1		149
21									
22									
23									
24							Grey SILT, little mf SAND, little mf GRAVEL (moist, hard)		
25	Bottom of Boring @ 25.0'								
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-421	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-03-1223
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll			<b>Location:</b> See Exploration Location Plan		<b>Date Started</b> 11/02/23	<b>Date Finished</b> 11/02/23	<b>Surface Elev.</b> 386.0'
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher <b>Driller:</b> R. Casatelli <b>Inspector:</b> <b>Drill Rig:</b> CME 550X <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> NQ-Core <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				11/02/23	While Drilling	None Noted	22.2		
				11/02/23	Before Casing Removed	None Noted	22.2		
				11/02/23	After Casing Removed	None Noted	out		
				11/02/23	After Casing Removed	caved @ 12.0	out		
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> <b>From</b> <b>To</b>		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse</b> <b>m - medium</b> <b>f - fine</b>	<b>and - 35 to 50% / some - 20 to 35%</b> <b>little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1A	0.0	1.0	SS/10	WH-2-3-5		Topsoil and Organic Matter (moist)		5
1	1B	1.0	2.0				Light Brown/Grey SILT, trace fine SAND (moist, medium stiff)		
2	2	2.0	4.0	SS/20	5-6-6-5		Light Brown SILT, trace fine SAND (moist, stiff)		12
3									
4	3	4.0	6.0	SS/20	3-4-4-5		Light Brown SILT, trace fine SAND (moist, stiff)		8
5									
6	4	6.0	8.0	SS/18	7-6-7-6		Similar as above (moist, stiff)		13
7									
8	5	8.0	10.0	SS/20	3-4-4-8		Similar as above (moist, stiff)		8
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/18	WH-WH-1		Light Grey SILT, some CLAY, trace cmf SAND (wet, very soft)		1
15									
16									
17									
18									
19	7	18.5	20.0	SS/18	4-4-6		Light Grey SILT, little cmf SAND, little cmf GRAVEL (wet, stiff)		10
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-421</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**


**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20	8	22.1	22.2	SS/1	100@1"				100+
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

Continued from Page 1  
  
*Auger refusal @ 22.1'*  
 Grey weathered ROCK chips (moist)  
 Bottom of Boring @ 22.2'

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>	<b>B-422</b>		
						<b>Page No.</b>	1 of 2		
						<b>Report No.</b>	28062B-03-1223		
<b>Project Name:</b>	Micron Campus, Clay, New York				<b>Date Started</b>	11/03/23			
<b>Client:</b>	Ramboll				<b>Date Finished</b>	11/03/23			
<b>Location:</b>	See Exploration Location Plan				<b>Surface Elev.</b>	382.0'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>	B. Fletcher	<b>Casing:</b>	3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b>	R. Casatelli	<b>Casing Hammer:</b>							
<b>Inspector:</b>		<b>Other:</b>	NQ-Core		11/03/23	While Drilling	6.4	18.5	
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	2" OD Split Barrel		11/03/23	Before Casing Removed	N/A	22.4	
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.		11/03/23	After Casing Removed	N/A	out	
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.		11/03/23	After Casing Removed	N/A	out	
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1	0.0	2.0	SS/14	2-1-2-2		<i>Reworked Material</i> ; Brown silt, cmf gravel, cmf sand (moist)		3
1							-----		
2	2	2.0	4.0	SS/18	3-3-4-4		Light Brown SILT, trace fine SAND (moist, medium stiff)		7
3									
4	3	4.0	6.0	SS/17	4-3-3-4		Light Brown SILT, trace fine SAND (moist, medium stiff)		6
5									
6	4	6.0	8.0	SS/19	4-4-5-4		Similar as above (wet, stiff)		9
7									
8	5	8.0	10.0	SS/14	4-4-3-5		Similar as above (wet, medium stiff)		7
9									
10							<i>See Remark 1</i>		
11									
12									
13									
14	6	13.5	15.0	SS/14	2-2-2		Light Grey SILT, trace fine SAND (wet, medium stiff)		4
15									
16									
17									
18									
19	7	18.5	20.0	SS/10	4-9-8		Light Grey SILT and cmf GRAVEL, little cmf SAND (wet, very stiff)		17
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Installed well at depth of 10.0' with 5.0' screen.



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-422</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	22.4	22.4	SS/0	100@0"		Continued from Page 1		100+
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod


**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-423	<b>Page No.</b> 1 of 1	<b>Report No.</b> 28062B-03-1223		
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll			<b>Date Started</b> 10/23/23	<b>Date Finished</b> 10/23/23	<b>Surface Elev.</b> 401.0'		
<b>Location:</b> See Exploration Location Plan		<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>			
<b>Driller:</b> H. Lyon <b>Driller:</b> K. Crandall <b>Inspector:</b> A. Sharma, EIT <b>Drill Rig:</b> CME 45 <b>Type:</b> Track <b>Rod Size:</b> AW		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				10/23/23	While Drilling	7.3	8.0		
				10/23/23	Before Casing Removed	17.9	18		
				10/23/23	After Casing Removed	5.0	out		
				10/23/23	After Casing Removed	caved @ 7.6	out		
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse m - medium f - fine</b>	<b>and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1A	0.0	0.7	SS/17	1-1-3-3	---	Dark Brown Topsoil and Organic Material (moist)		4
1	1B	0.7	2.0				Brown SILT, little CLAY, trace fine SAND (moist, medium stiff)		
2	2	2.0	4.0	SS/15	4-3-5-7		Brown mottled SILT, little CLAY, trace fine SAND (wet, stiff)		8
3									
4	3	4.0	6.0	SS/20	6-8-6-9		Brown SILT, little CLAY, trace fine SAND (wet, stiff)		14
5									
6	4	6.0	8.0	SS/24	7-11-15-22		Brown SILT, little CLAY, trace fine SAND, trace mf GRAVEL (wet, very stiff)		26
7									
8	5	8.0	10.0	SS/19	9-15-10-10		Grey/Brown cmf SAND and mf GRAVEL, some SILT (wet, medium compact)		25
9							Augered gravelly beginning @ 8.5'		
10									
11									
12									
13	6	13.0	13.8	SS/10	23-50@4"		Grey weathered ROCK fragments, little SILT, little cmf GRAVEL (moist)		50+
14									
15									
16									
17							Augered hard beginning @ 16.8'		
18	7	18.0	18.4	SS/5	50@5"		Grey weathered ROCK fragments, some mf GRAVEL, trace SILT (moist)		50+
19							Auger refusal @ 18.6'		
20							Bottom of Boring @ 18.6'		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

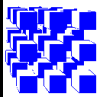
**Remarks:**



		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-424	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-03-1223
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll			<b>Location:</b> See Exploration Location Plan		<b>Date Started</b> 10/19/23	<b>Date Finished</b> 10/19/23	<b>Surface Elev.</b> 403.0'
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> H. Lyon		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> K. Crandall		<b>Casing Hammer:</b>		10/19/23	While Drilling	12.6	12.5		
<b>Inspector:</b> A. Sharma, EIT		<b>Other:</b>		10/19/23	Before Casing Removed	None Noted	20.3		
<b>Drill Rig:</b> CME 45		<b>Soil Sampler:</b> 2" OD Split Barrel		10/19/23	After Casing Removed	14.1	out		
<b>Type:</b> Track		<b>Hammer Wt:</b> 140 lbs.		10/19/23	After Casing Removed	caved @ 16.0	out		
<b>Rod Size:</b> AW		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1A	0.0	0.5	SS/17	1-3-5-5		Topsoil and Organic Material (moist)		8
1	1B	0.5	2.0				Brown SILT and fine SAND, trace CLAY (moist, stiff)		
2	2	2.0	3.6	SS/16	5-5-5-50@1"		Brown cmf SAND, some SILT, little mf GRAVEL (wet, medium compact)		10
3									
4	3A	4.0	4.0	SS/0	50@0"		No Recovery - See Remark 1		50+
5	3B	4.0	6.0	SS/19	3-6-7-7		Brown cmf SAND and SILT, little mf GRAVEL (wet, medium compact)		13
6	4	6.0	8.0	SS/14	4-5-12-10		Augered gravelly beginning @ 4.0' Grey/Brown cmf SAND and SILT, little mf GRAVEL (wet, medium compact)		17
7									
8	5	8.0	10.0	SS/21	7-8-9-11		Light Brown SILT, some cmf SAND, little mf GRAVEL (wet, very stiff)		17
9									
10									
11									
12									
13	6	13.0	15.0	SS/18	19-29-33-32		Grey cmf SAND, some SILT, some mf GRAVEL, trace CLAY (wet, very compact)		62
14									
15									
16									
17							Augered hard beginning @ 16.5'		
18	7	18.0	18.8	SS/10	23-50@4"		Dark Grey/Black weathered ROCK fragments, some SILT, little CLAY (wet)		50+
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Auger Refusal @ 4.0', boring was offset about 3.0' north and sampled starting from depth of 4.0'



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-424</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	20.3	21.0	SS/6	23-50@2"		Continued from Page 1		50+
21							<i>Auger refusal @ 20.3'</i>		
22							Dark Grey weathered ROCK fragments, some cmf SAND, some mf GRAVEL (moist)		
23							Bottom of Boring @ 21.0'		
24									
25									
26									
27									
28									
29									
30									
31									
32									
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37									
38									
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40									
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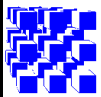
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-425	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-03-1223		
<b>Project Name:</b> Micron Campus, Clay, New York					<b>Date Started</b> 10/19/23	<b>Date Finished</b> 10/19/23			
<b>Client:</b> Ramboll					<b>Surface Elev.</b> 401.1'				
<b>Location:</b> See Exploration Location Plan									
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b> H. Lyon <b>Driller:</b> K. Crandall <b>Inspector:</b> A. Sharma, EIT <b>Drill Rig:</b> CME 45 <b>Type:</b> Track <b>Rod Size:</b> AW		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				10/19/23	While Drilling	13.7	13.0		
				10/19/23	Before Casing Removed	None Noted	19.1		
				10/19/23	After Casing Removed	17.1	out		
				10/19/23	After Casing Removed	caved @ 19.3	out		
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse</b> <b>m - medium</b> <b>f - fine</b>	<b>and - 35 to 50% / some - 20 to 35%</b> <b>little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1A	0.0	0.5	SS/16	1-3-5-9		Topsoil and Organic Material (moist)		8
1	1B	0.5	2.0				Brown mottled SILT, little fine SAND (moist, stiff)		
2	2	2.0	4.0	SS/18	7-11-17-17		Brown SILT, some fine SAND (moist, very stiff)		28
3									
4	3	4.0	6.0	SS/15	7-6-10-10		Brown/Reddish cmf SAND, some SILT, some mf GRAVEL (wet, medium compact)		16
5							<i>Augered gravelly beginning @ 6.0'</i>		
6	4	6.0	8.0	SS/17	14-14-14-32		Brown cmf SAND and mf GRAVEL, little SILT (wet, medium compact)		28
7									
8	5	8.0	10.0	SS/17	6-10-7-9		Grey SILT and cmf SAND, little mf GRAVEL (wet, very stiff)		17
9									
10									
11									
12									
13	6	13.0	14.4	SS/13	23-49-50@5"		Dark Grey SILT and cmf SAND, some CLAY, some mf GRAVEL (moist, hard)		50+
14									
15									
16									
17									
18	7	18.0	19.9	SS/22	25-40-38-50@5"		<i>Augered hard beginning @ 17.7'</i> Grey cmf SAND and mf GRAVEL, some weathered ROCK fragments, some SILT (wet, very compact)		78
19									
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-425</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20							Continued from Page 1		
21							<i>Auger refusal @ 20.1'</i>		
22							Bottom of Boring @ 20.1'		
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-426</b>
<b>Page No.</b>	1 of 2
<b>Report No.</b>	28062B-03-1223
<b>Date Started</b>	10/16/23
<b>Date Finished</b>	10/17/23
<b>Surface Elev.</b>	390.5'

<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	G. Richards	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	R. Casatelli	<b>Casing Hammer:</b>		10/16/23	While Drilling	9.2	19.0
<b>Inspector:</b>		<b>Other:</b>	NQ-Core	10/17/23	Before Casing Removed	8.3	19
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	2" OD Split Barrel	10/17/23	After Casing Removed		out
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	10/17/23	After Casing Removed	caved @	out
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5	SS/19	1-4-5-5		Topsoil and Organic Material (moist)		9
1	1B	0.5	2.0				Light Brown SILT, trace fine SAND, trace ORGANIC MATERIAL (moist, stiff)		
2	2	2.0	4.0	SS/20	4-4-4-5		Light Brown SILT, trace fine SAND (moist, stiff)		8
3									
4	3	4.0	6.0	SS/19	3-6-5-5		Light Brown SILT, trace fine SAND (wet, stiff)		11
5									
6	4	6.0	8.0	SS/16	5-4-3-6		Light Brown SILT, trace fine SAND (wet, medium stiff)		7
7									
8	5	8.0	10.0	SS/17	4-5-6-5		Light Grey SILT, trace fine SAND (wet, stiff)		11
9									
10									
11									
12									
13									
14	6	14.0	16.0	SS/22	2-1-2-1		Light Grey SILT, trace fine SAND (wet, soft)		3
15									
16	7	16.0	18.0	SS/8	1-4-4-13		Light Grey SILT, little weathered ROCK fragments, little cmf GRAVEL (wet, stiff) <i>Augered gravelly beginning @ 17.0'</i>		8
17									
18									
19	8	19.0	21.0	SS/12	2-2-6-11		Grey/Black SILT, some cmf GRAVEL, little weathered ROCK fragments (wet, stiff)		8
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-426</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	R1	22.5	27.5	C/60	NQ-Core		Continued from Page 1		20%
21									
22									
23							<i>Auger refusal @ 22.5'. Set up to core.</i>		
24	R2	27.5	32.5	C/60	NQ-Core		Dark Grey/Black SHALE with interbedded Dolostone layers (<1/8" to 1 1/2" thick) throughout, highly weathered, laminated to thinly bedded, medium hard. Recovery: 60"/60" = 100% RQD: 12"/60" = 20% 6 Pieces, 36" Chips and fragments 0.0' to 2.0', 2:45 min/ft, 2.0' to 4.0', 2:07 min/ft, and 4.0' to 5.0', 3:38 min/ft, no water loss Coring conducted in 4th gear, 1800 rpm, 500 psi down pressure.		83%
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
							Bottom of Boring @ 32.5'		

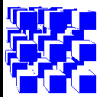
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>	<b>B-427</b>		
						<b>Page No.</b>	1 of 2		
						<b>Report No.</b>	28062B-03-1223		
<b>Project Name:</b>	Micron Campus, Clay, New York				<b>Date Started</b>	10/16/23			
<b>Client:</b>	Ramboll				<b>Date Finished</b>	10/17/23			
<b>Location:</b>	See Exploration Location Plan				<b>Surface Elev.</b>	390.9'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>	G. Richards	<b>Casing:</b>	3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b>	R. Casatelli	<b>Casing Hammer:</b>			10/16/23	While Drilling	14.8	14.0	
<b>Inspector:</b>		<b>Other:</b>	NQ-Core		10/17/23	Before Casing Removed	9.3	23.9	
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	2" OD Split Barrel		10/17/23	After Casing Removed	-	out	
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.		10/17/23	After Casing Removed	caved @	out	
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.						
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5	SS/19	1-3-5-6		Topsoil and Organic Material (moist)		8
1	1B	0.5	2.0				Light Brown SILT, trace fine SAND (moist, stiff)		
2	2	2.0	4.0	SS/19	4-6-6-5		Light Brown SILT, trace fine SAND, trace CLAY (moist, stiff)		12
3									
4	3	4.0	6.0	SS/18	1-4-5-6		Light Brown SILT, trace fine SAND (moist, stiff)		9
5									
6	4	6.0	8.0	SS/20	6-5-5-5		Light Brown SILT, trace fine SAND (moist, stiff)		10
7									
8	5	8.0	10.0	SS/20	2-3-4-5		Light Brown SILT, trace fine SAND, trace mf GRAVEL (moist, medium stiff)		7
9									
10									
11									
12									
13									
14	6	14.0	16.0	SS/19	1-2-2-1		Light Grey SILT, trace fine SAND (wet, medium stiff)		4
15									
16									
17									
18									
19	7	19.0	21.0	SS/12	5-9-10-23		Dark Grey SILT and weathered ROCK fragments (wet, very stiff) stiff)		19
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-427</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**


**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.9	23.9	SS/0	100@0"		Continued from Page 1		100+
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

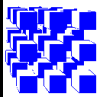
**Remarks:**



		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-428	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-03-1223
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll			<b>Location:</b> See Exploration Location Plan		<b>Date Started</b> 10/23/23	<b>Date Finished</b> 10/23/23	<b>Surface Elev.</b> 392.7'
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher <b>Driller:</b> R. Casatelli <b>Inspector:</b> <b>Drill Rig:</b> CME 550X <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> NQ-Core <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				10/23/23	While Drilling	10.5	15.0		
				10/23/23	Before Casing Removed	13.7	22.2		
				10/23/23	After Casing Removed	None Noted	out		
				10/23/23	After Casing Removed	caved @ 3.0'	out		
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> <b>From</b> <b>To</b>		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse</b> <b>m - medium</b> <b>f - fine</b>	<b>and - 35 to 50% / some - 20 to 35%</b> <b>little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1A	0.0	0.5	SS/17	7-3-6-7		Topsoil and Organic Material (moist)		9
1	1B	0.5	2.0				Light Brown SILT, trace fine SAND (moist, stiff)		
2	2	2.0	4.0	SS/17	7-8-8-8		Light Brown SILT, trace fine SAND, trace CLAY (moist, very stiff)		16
3									
4	3	4.0	6.0	SS/18	3-3-5-5		Light Brown SILT, trace fine SAND (moist, stiff)		8
5									
6	4	6.0	8.0	SS/19	4-4-4-4		Similar as above (moist, stiff)		8
7									
8	5	8.0	10.0	SS/19	4-4-4-6		Similar as above (moist, stiff)		8
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/18	1-1-1		Light Brown SILT, trace CLAY, trace fine SAND (wet, soft)		2
15	7	15.0	17.0	SS/20	WH-2-3-8		Light Brown/Grey SILT, some CLAY, little mf GRAVEL (wet, medium stiff)		5
16									
17									
18									
19	8	18.5	20.0	SS/9	13-7-18		Grey cmf GRAVEL, some SILT, little weathered ROCK fragments (wet, medium compact)		25
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
Associates, Inc.

6035 Corporate Drive  
East Syracuse, NY 13057  
Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-428</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	9	22.2	22.2	SS/0	100@0"		Continued from Page 1		100+
21									
22							<i>Auger refusal @ 22.2'</i>		
23							<i>No Recovery</i>		
24							<i>Bottom of Boring @ 22.2'</i>		
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>	<b>B-429</b>		
						<b>Page No.</b>	1 of 2		
						<b>Report No.</b>	28062B-03-1223		
<b>Project Name:</b>	Micron Campus, Clay, New York				<b>Date Started</b>	10/18/23			
<b>Client:</b>	Ramboll				<b>Date Finished</b>	10/18/23			
<b>Location:</b>	See Exploration Location Plan				<b>Surface Elev.</b>	390.8'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>	G. Richards	<b>Casing:</b>	3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b>	R. Casatelli	<b>Casing Hammer:</b>							
<b>Inspector:</b>		<b>Other:</b>			10/18/23	While Drilling	18.2	19.0	
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	2" OD Split Barrel		10/18/23	Before Casing Removed	13.8	21.7	
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.		10/18/23	After Casing Removed	13.7	out	
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.		10/18/23	After Casing Removed	caved @ 15.3	out	
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/15	1-2-2-5		Light Brown SILT, trace fine SAND, trace ROOTS (moist, medium stiff)		4
1									
2	2	2.0	4.0	SS/18	5-4-5-5		Light Brown SILT, trace fine SAND (moist, stiff)		9
3									
4	3	4.0	6.0	SS/17	2-2-2-3		Light Brown SILT, trace fine SAND (moist, medium stiff)		4
5									
6	4	6.0	8.0	SS/18	3-5-4-4		Similar as above (moist, stiff)		9
7									
8	5	8.0	10.0	SS/20	2-4-4-6		Similar as above (moist, stiff)		8
9									
10									
11									
12									
13									
14	6	14.0	16.0	SS/18	2-5-6-6		Light Brown SILT, little mf GRAVEL, trace fine SAND (moist, stiff)		11
15									
16									
17									
18									
19	7	19.0	21.0	SS/13	7-7-11-18		Dark Grey weathered ROCK fragments, little SILT (wet)		18
20							Continued on Page 2		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-429</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-03-1223


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	21.7	21.7	SS/0	100@0"		Continued from Page 1		100+
21							<i>Auger refusal @ 21.7'</i>		
22							<i>No Recovery. See Remark 1</i>		
23							<i>Bottom of Boring @ 21.7'</i>		
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. ROCK chips on spoon top

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No. B-430</b> <b>Page No. 1 of 2</b> <b>Report No. 28062B-03-1223</b>					
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 10/19/23		<b>Client:</b> Ramboll		<b>Date Finished:</b> 10/19/23					
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 390.2'									
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b> J. Winks		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>	
<b>Driller:</b> R. Casatelli		<b>Casing Hammer:</b>		10/19/23		While Drilling		18.2		19.0	
<b>Inspector:</b>		<b>Other:</b>		10/19/23		Before Casing Removed		13.8		21.7	
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		10/19/23		After Casing Removed		13.7		out	
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		10/19/23		After Casing Removed		caved @ 15.3		out	
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.									
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
0	1A	0.0	0.5	SS/14	2-7-6-7		Topsoil and Organic Material (moist)				13
1	1B	0.5	2.0				Light Brown/Light Grey SILT, trace fine SAND, trace CLAY (moist, stiff)				
2	2	2.0	4.0	SS/19	2-4-6-7		Light Brown/Light Grey SILT, trace fine SAND, trace CLAY (moist, stiff)				10
3											
4	3	4.0	6.0	SS/20	7-3-3-2		Light Brown SILT, trace fine SAND (moist, medium stiff)				6
5											
6	4	6.0	8.0	SS/17	4-4-4-4		Light Brown SILT, trace fine SAND (moist, stiff)				8
7											
8	5	8.0	10.0	SS/20	4-4-6-7		Similar as above (moist, stiff)				10
9											
10											
11											
12											
13											
14	6	13.5	15.0	SS/15	1-3-2		Light Grey SILT, trace fine GRAVEL, trace fine SAND (moist, medium stiff)				5
15											
16											
17											
18											
19	7	18.5	20.0	SS/12	13-22-15		Dark Grey weathered ROCK fragments, little SILT (wet)				37
20							Continued on Page 2				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-430</b>
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<b>Report No.</b>	28062B-03-1223

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20							Continued from Page 1		
21									
22									
23	8	23.5	25.0	SS/13	18-12-19		Dark Grey weathered ROCK fragments, little SILT (wet)		31
24									
25									
26									
27	9	27.3	27.3	SS/0	100@0"		No Recovery - Auger refusal @ 27.3' Bottom of Boring @ 27.3'		100+
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



## **PRESENTATION OF SITE INVESTIGATION RESULTS**

### **Proposed Micron Plant Clay, New York**

#### **Prepared for:**

**CME Associates, Inc.**

ConeTec Job No: 23-53-26729

Project Start Date: 23-Oct-2023

Project End Date: 28-Oct-2023

Report Date: 23-Nov-2023

#### **Prepared by:**

**ConeTec Inc.**

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## INTRODUCTION

The enclosed report presents the results of the site investigation program conducted by ConeTec, Inc. for CME Associates, Inc. The program consisted of cone penetration tests, seismic cone penetration tests, and pore pressure dissipation tests carried out for Proposed Micron Plant located in Clay, New York. The program was completed under supervision of CME Associates, Inc. personnel (Mark Schumacher). Please note that this report, which also includes all accompanying data, are subject to the 3<sup>rd</sup> Party Disclaimer and Client Disclaimer that follows in the 'Limitations' section of this report.

## PROJECT INFORMATION

Project	
<b>Client</b>	CME Associates, Inc.
<b>Project</b>	Proposed Micron Plant, Clay, NY
<b>ConeTec Project Number</b>	23-53-26729
<b>Rig Description</b>	20-ton Track CPT Rig
<b>Test Types</b>	CPTu, SCPTu, PPD
<b>Additional Comments</b>	None

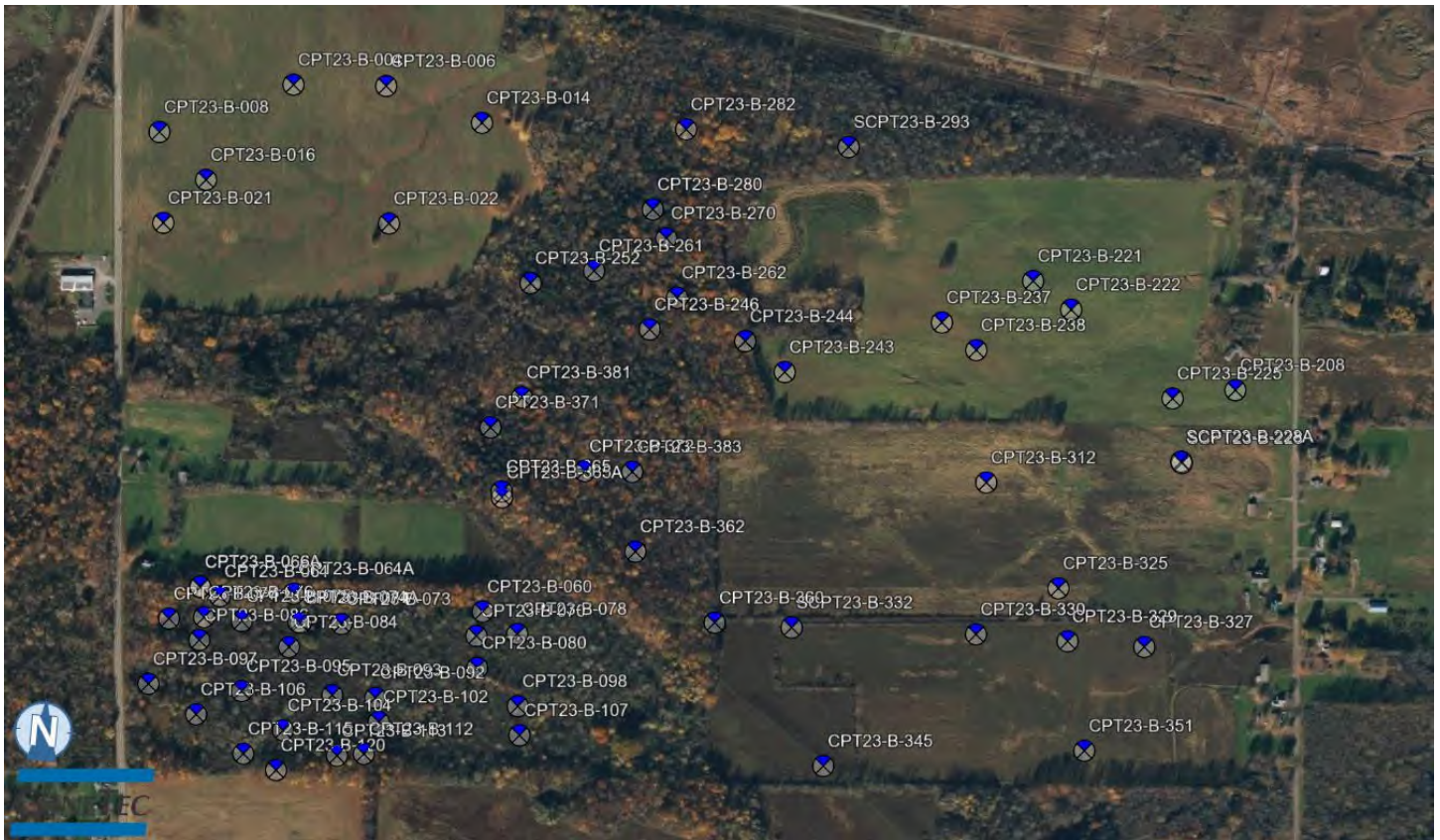
Coordinates	
<b>Collection Method</b>	Handheld GPS
<b>EPSG Number</b>	32618 (WGS 84 / UTM Zone 18 North)
<b>Additional Comments</b>	None



Cone Penetration Test (CPTu)	
<b>Depth reference</b>	Depths are referenced to the existing ground surface at the time of each test.
<b>Tip and sleeve data offset</b>	0.1 Meters. This has been accounted for in the CPT data files.
<b>Seismic calculations</b>	<p>Poisson's ratio (<math>\nu</math>) was calculated from the shear wave (<math>V_s</math>) and compression wave (<math>V_p</math>) velocities using the following equation:</p> $\nu = \frac{(V_p/V_s)^2 - 2}{2((V_p/V_s)^2 - 1)}$
<b>Additional Comments</b>	None

Calculated Geotechnical Parameters	
<b>Additional information</b>	<p>The Normalized Soil Behavior Type Chart based on <math>Q_{tn}</math> (SBT <math>Q_{tn}</math>) (Robertson, 2009) was used to classify the soil for this project. A detailed set of calculated CPTu parameters have been generated and are provided in Excel format files in the release folder. The CPTu parameter calculations are based on values of corrected tip resistance (<math>q_t</math>) sleeve friction (<math>f_s</math>) and pore pressure (<math>u_2</math>).</p> <p>Effective stresses are calculated based on unit weights that have been assigned to the individual soil behavior type zones and the assumed equilibrium pore pressure profile.</p> <p>Soils were classified as either drained or undrained based on the <math>Q_{tn}</math> Normalized Soil Behavior Type Chart (Robertson, 2009). Calculations for both drained and undrained parameters were included for materials that classified as silt mixtures (zone 4).</p> <p>For calculating undrained shear strength based on pore pressure (<math>S_u(N_{\Delta u})</math>) and undrained shear strength based on cone tip resistance (<math>S_u(N_{kt})</math>), an <math>N_{\Delta u}</math> value of 6 and an <math>N_{kt}</math> value of 15 were selected.</p>

# SITE MAP



## LIMITATIONS

### 3<sup>rd</sup> Party Disclaimer

- The “Report” refers to this report titled Proposed Micron Plant, Clay, NY
- The Report was prepared by ConeTec for CME Associates, Inc.

The Report is confidential and may not be distributed to or relied upon by any third parties without the expressed written consent of ConeTec. Any third parties gaining access to the Report do not acquire any rights as a result of such access. Any use which a third party makes of the Report, or any reliance on or decisions made based on it, are the responsibility of such third parties. ConeTec accepts no responsibility for loss, damage and/or expense, if any, suffered by any third parties as a result of decisions made, or actions taken or not taken, which are in any way based on, or related to, the Report or any portion(s) thereof.

### Client Disclaimer

- ConeTec was retained by CME Associates, Inc.
- The “Report” refers to this report titled Proposed Micron Plant, Clay, NY
- ConeTec was retained to collect and provide the factual data (“Data”) which is included in the Report.

ConeTec has collected and reported the Data in accordance with current industry standards. No other warranty, expressed or implied, with respect to the Data is made by ConeTec. In order to properly understand the Data included in the Report, reference must be made to the documents accompanying and other sources referenced in the Report in their entirety. Other than the Data, the contents of the Report (including any interpretations), should not be relied upon in any fashion without independent verification. ConeTec is in no way responsible for any loss, damage or expense resulting from the use of, and/or reliance on, such material by any party.

## METHODOLOGY STATEMENTS



### CONE PENETRATION TEST (CPTu) - eSeries

Cone penetration tests (CPTu) are conducted using an integrated electronic piezocone penetrometer and data acquisition system manufactured by Adara Systems Ltd., a subsidiary of ConeTec.

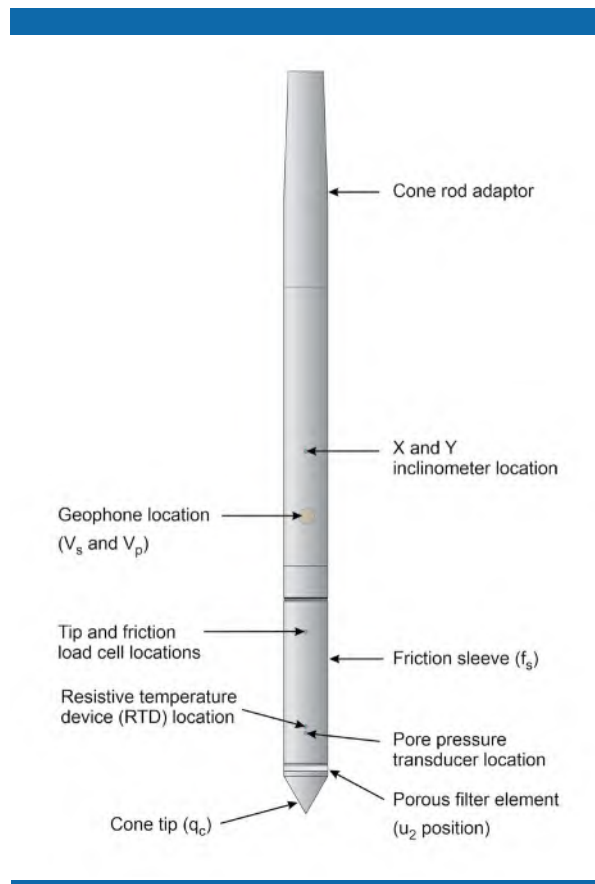
ConeTec's piezocone penetrometers are compression type designs in which the tip and friction sleeve load cells are independent and have separate load capacities. The piezocones use strain gauged load cells for tip and sleeve friction and a strain gauged diaphragm type transducer for recording pore pressure. The piezocones also have a platinum resistive temperature device (RTD) for monitoring the temperature of the sensors, an accelerometer type dual axis inclinometer and two geophone sensors for recording seismic signals. All signals are amplified and measured with minimum sixteen-bit resolution down hole within the cone body, and the signals are sent to the surface using a high bandwidth, error corrected digital interface through a shielded cable.

ConeTec penetrometers are manufactured with various tip, friction and pore pressure capacities in both 10 cm<sup>2</sup> and 15 cm<sup>2</sup> tip base area configurations in order to maximize signal resolution for various soil conditions. The specific piezocone used for each test is described in the CPT summary table. The 15 cm<sup>2</sup> penetrometers do not require friction reducers as they have a diameter larger than the deployment rods. The 10 cm<sup>2</sup> piezocones use a friction reducer consisting of a rod adapter extension behind the main cone body with an enlarged cross sectional area (typically 44 millimeters diameter over a length of 32 millimeters with tapered leading and trailing edges) located at a distance of 585 millimeters above the cone tip.

The penetrometers are designed with equal end area friction sleeves, a net end area ratio of 0.8 and cone tips with a 60 degree apex angle.

All ConeTec piezocones can record pore pressure at various locations. Unless otherwise noted, the pore pressure filter is located directly behind the cone tip in the "u<sub>2</sub>" position (ASTM Type 2). The filter is six millimeters thick, made of porous plastic (polyethylene) having an average pore size of 125 microns (90-160 microns). The function of the filter is to allow rapid movements of extremely small volumes of water needed to activate the pressure transducer while preventing soil ingress or blockage.

The piezocone penetrometers are manufactured with dimensions, tolerances and sensor characteristics that are in general accordance with the current ASTM D5778 standard. ConeTec's calibration criteria also meets or exceeds those of the current ASTM D5778 standard. An illustration of the piezocone penetrometer is presented in Figure CPTu.



**Figure CPTu. Piezocone Penetrometer (15 cm<sup>2</sup>)**

The ConeTec data acquisition system consists of a Windows based computer, signal interface box, and power supply. The signal interface combines depth increment signals, seismic trigger signals and the downhole digital data. This combined data is then sent to the Windows based computer for collection and presentation. The data is recorded at fixed depth increments using a depth encoder that is either portable or integrated into the rig. The typical recording interval is 2.5 centimeters; custom recording intervals are possible.

The system displays the CPTu data in real time and records the following parameters to a storage media during penetration:

- Depth
- Uncorrected tip resistance ( $q_c$ )
- Sleeve friction ( $f_s$ )
- Dynamic pore pressure ( $u$ )
- Additional sensors such as resistivity, passive gamma, ultra violet induced fluorescence, if applicable

All testing is performed in accordance to ConeTec's CPTu operating procedures which are in general accordance with the current [ASTM D5778](#) standard.

Prior to the start of a CPTu sounding a suitable cone is selected, the cone and data acquisition system are powered on, the pore pressure system is saturated with silicone oil and the baseline readings are recorded with the cone hanging freely in a vertical position.

The CPTu is conducted at a steady rate of two centimeters per second, within acceptable tolerances. Typically one meter length rods with an outer diameter of 1.5 inches are added to advance the cone to the sounding termination depth. After cone retraction final baselines are recorded.

Additional information pertaining to ConeTec's cone penetration testing procedures:

- Each filter is saturated in silicone oil under vacuum pressure prior to use
- Baseline readings are compared to previous readings
- Soundings are terminated at the client's target depth or at a depth where an obstruction is encountered, excessive rod flex occurs, excessive inclination occurs, equipment damage is likely to take place, or a dangerous working environment arises
- Differences between initial and final baselines are calculated to ensure zero load offsets have not occurred and to ensure compliance with ASTM standards

The interpretation of piezocone data for this report is based on the corrected tip resistance ( $q_t$ ), sleeve friction ( $f_s$ ) and pore water pressure ( $u$ ). The interpretation of soil type is based on the correlations developed by Robertson, P.K., 2010. The Soil Behavior Type (SBT) classification chart developed by Robertson, P.K., 2010 is presented in Figure SBT. It should be noted that it is not always possible to accurately identify a soil behavior type based on these parameters. In these situations, experience, judgment and an assessment of other parameters may be used to infer soil behavior type.

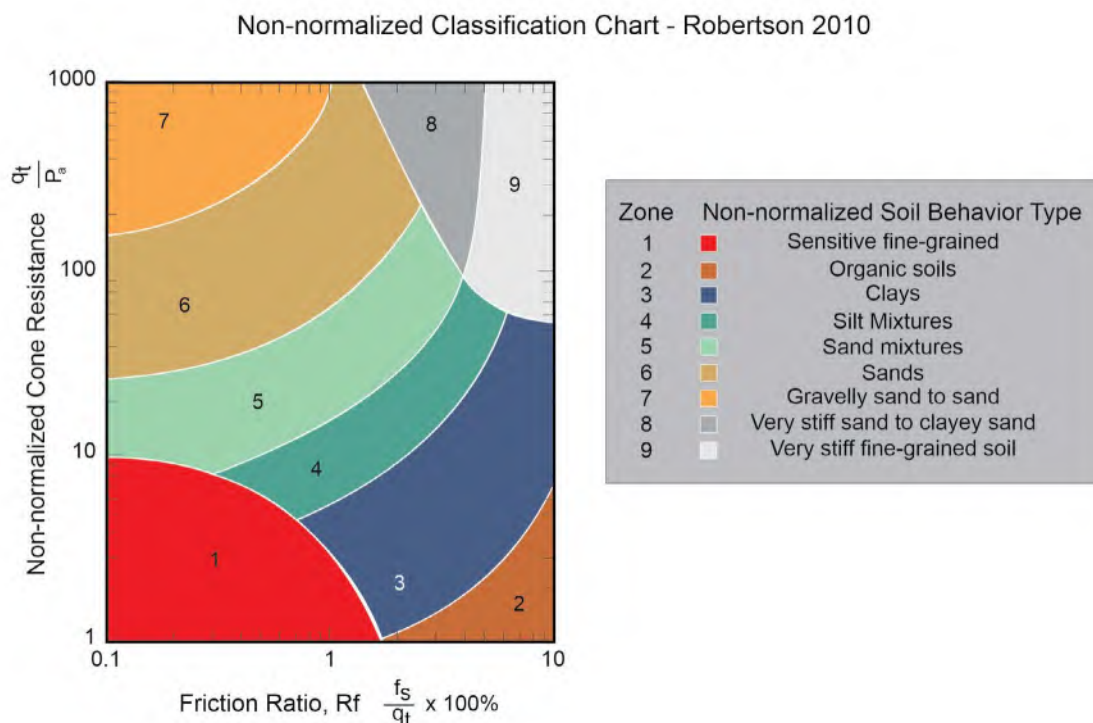


Figure SBT. Non-Normalized Soil Behavior Type Classification Chart (SBT)

The recorded tip resistance ( $q_c$ ) is the total force acting on the piezocone tip divided by its base area. The tip resistance is corrected for pore pressure effects and termed corrected tip resistance ( $q_t$ ) according to the following expression presented in [Robertson et al. \(1986\)](#):

$$q_t = q_c + (1-a) \cdot u_2$$

where:  $q_t$  is the corrected tip resistance

$q_c$  is the recorded tip resistance

$u_2$  is the recorded dynamic pore pressure behind the tip ( $u_2$  position)

$a$  is the Net Area Ratio for the piezocone (0.8 for ConeTec probes)

The sleeve friction ( $f_s$ ) is the frictional force on the sleeve divided by its surface area. As all ConeTec piezocones have equal end area friction sleeves, pore pressure corrections to the sleeve data are not required.

The dynamic pore pressure ( $u$ ) is a measure of the pore pressures generated during cone penetration. To record equilibrium pore pressure, the penetration must be stopped to allow the dynamic pore pressures to stabilize. The rate at which this occurs is predominantly a function of the permeability of the soil and the diameter of the cone.

The friction ratio ( $R_f$ ) is a calculated parameter. It is defined as the ratio of sleeve friction to the tip resistance expressed as a percentage. Generally, saturated cohesive soils have low tip resistance, high friction ratios and generate large excess pore water pressures. Cohesionless soils have higher tip resistances, lower friction ratios and do not generate significant excess pore water pressure.

For additional information on CPTu interpretations and calculated geotechnical parameters, refer to [Robertson et al. \(1986\)](#), [Lunne et al. \(1997\)](#), [Robertson \(2009\)](#), [Mayne \(2013, 2014\)](#) and [Mayne and Peuchen \(2012\)](#).

## REFERENCES

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## PORE PRESSURE DISSIPATION TEST

The cone penetration test is halted at specific depths to carry out pore pressure dissipation (PPD) tests, shown in [Figure PPD-1](#). For each dissipation test the cone and rods are decoupled from the rig and the data acquisition system measures and records the variation of the pore pressure ( $u$ ) with time ( $t$ ).

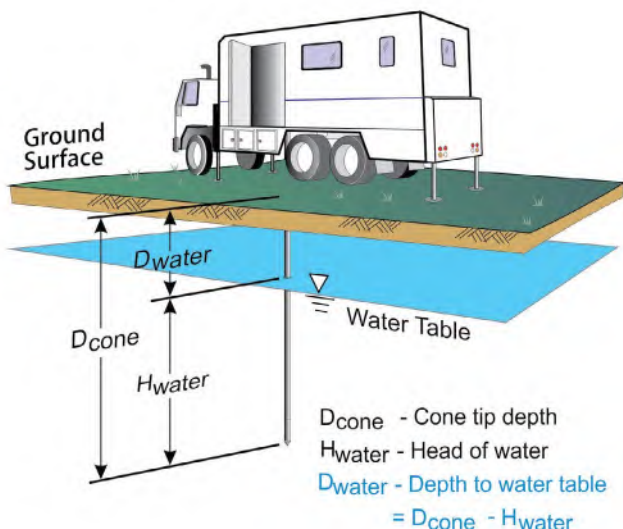


Figure PPD-1. Pore pressure dissipation test setup

Pore pressure dissipation data can be interpreted to provide estimates of ground water conditions, permeability, consolidation characteristics and soil behavior.

The typical shapes of dissipation curves shown in [Figure PPD-2](#) are very useful in assessing soil type, drainage, in situ pore pressure and soil properties. A flat curve that stabilizes quickly is typical of a freely draining sand. Undrained soils such as clays will typically show positive excess pore pressure and have long dissipation times. Dilative soils will often exhibit dynamic pore pressures below equilibrium that then rise over time. Overconsolidated fine-grained soils will often exhibit an initial dilatatory response where there is an initial rise in pore pressure before reaching a peak and dissipating.

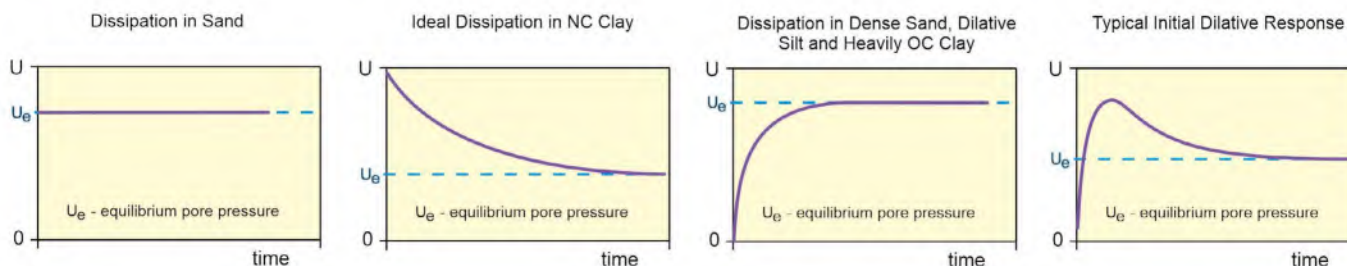


Figure PPD-2. Pore pressure dissipation curve examples

In order to interpret the equilibrium pore pressure ( $u_{eq}$ ) and the apparent phreatic surface, the pore pressure should be monitored until such time as there is no variation in pore pressure with time as shown for each curve in [Figure PPD-2](#).





## SEISMIC CONE PENETRATION TEST (SCPTu) - eSeries

Shear wave velocity ( $V_s$ ) testing is performed in conjunction with the piezocone penetration test (SCPTu) in order to collect interval velocities. For some projects seismic compression wave velocity ( $V_p$ ) testing is also performed.

ConeTec's piezocone penetrometers are manufactured with one horizontally active geophone (28 hertz) and one vertically active geophone (28 hertz). Both geophones are rigidly mounted in the body of the cone penetrometer, 0.2 meters behind the cone tip. The vertically mounted geophone is more sensitive to compression waves.

Shear waves are typically generated by using an impact hammer horizontally striking a beam that is held in place by a normal load. In some instances, an auger source or an imbedded impulsive source may be used for both shear waves and compression waves. The hammer and beam act as a contact trigger that initiates the recording of the seismic wave traces. For impulsive devices an accelerometer trigger may be used. The traces are recorded in the memory of the cone using a fast analog to digital converter. The seismic trace is then transmitted digitally uphole to a Windows based computer through a signal interface box for recording and analysis. An illustration of the shear wave testing configuration is presented in [Figure SCPTu-1](#).

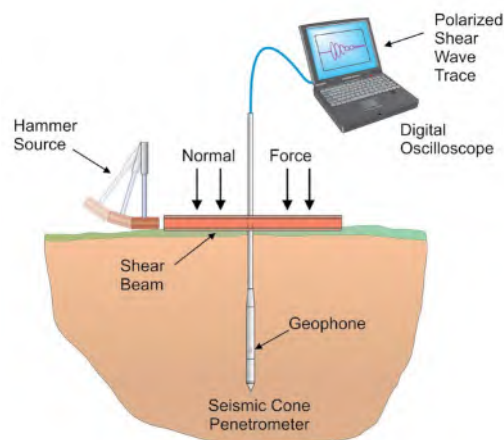


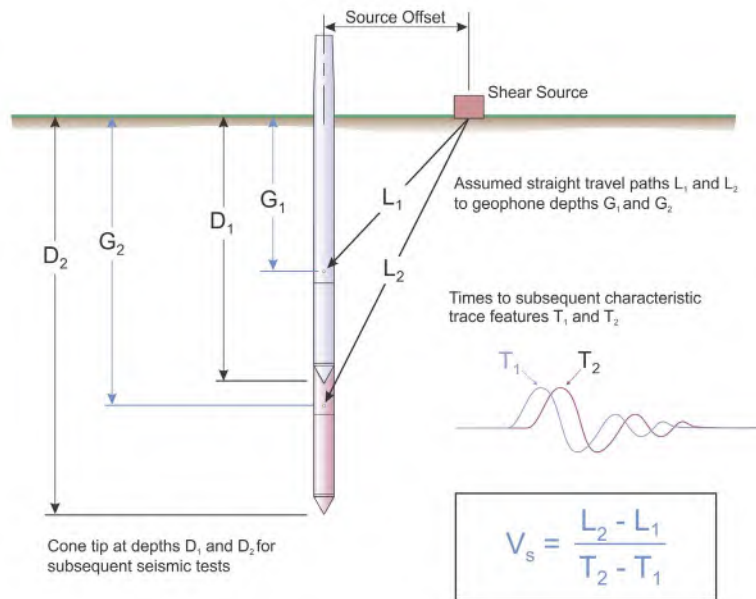
Figure SCPTu-1. Illustration of the SCPTu system

All testing is performed in accordance to ConeTec's SCPTu operating procedures which are in general accordance with the current [ASTM D5778](#) and [ASTM D7400](#) standards.

Prior to the start of a SCPTu sounding, the procedures described in the Cone Penetration Test section are followed. In addition, the active axis of the geophone is aligned parallel to the beam (or source) and the horizontal offset between the cone and the source is measured and recorded.

Prior to recording seismic waves at each test depth, cone penetration is stopped and the rods are decoupled from the rig to avoid transmission of rig energy down the rods. Typically, five wave traces for each orientation are recorded for quality control and uncertainty analysis purposes. After reviewing wave traces for consistency the cone is pushed to the next test depth (typically one meter intervals or as requested by the client). [Figure SCPTu-2](#) presents an illustration of a SCPTu test.

For additional information on seismic cone penetration testing refer to [Robertson et al. \(1986\)](#).



**Figure SCPTu-2. Illustration of a seismic cone penetration test**

For the determination of interval travel times the wave traces from all depths are displayed in analysis software. The results of the interval picks are supplied in the relevant appendix of this report. Standard practice for ConeTec is to record five wave traces for each source direction at each test depth. Outlier impacts are identified in the field and the impacts are repeated. For the final wave trace profile, the traces are stacked in the time domain to display a single average trace.

Calculation of the interval velocities are performed by visually picking a common feature (e.g. the first characteristic peak, trough, or crossover) on all of the recorded wave sets and taking the difference in ray path divided by the time difference between subsequent features. Ray path is defined as the straight line distance from the seismic source to the geophone, accounting for beam offset, source depth and geophone offset from the cone tip.

In some cases, usually for shear wave velocity testing, more than one characteristic marker may be used. If there is an overlap between different sets of characteristic markers, then the average time value for those sets of interval times is applied to the determination of velocity.

Ideally, all depths are used for the determination of the velocity profile. However, an interval may be skipped if there is some ambiguity or quality concern with a particular depth, resulting in a larger interval.

Tabular velocity results and SCPTu plots are presented in the relevant appendix.

For all SCPTu soundings that have achieved a depth of at least 100 feet (30 meters), the average shear wave velocity to a depth of 100 feet ( $\bar{v}_s$ ) has been calculated and provided for all applicable soundings using the following equation presented in [ASCE \(2010\)](#).

$$\bar{v}_s = \frac{\sum_{i=1}^n d_i}{\sum_{i=1}^n \frac{d_i}{v_{si}}}$$

where:  $\bar{v}_s$  = average shear wave velocity ft/s (m/s)  
 $d_i$  = the thickness of any layer between 0 and 100 ft (30 m)  
 $v_{si}$  = the shear wave velocity in ft/s (m/s)  
 $\sum_{i=1}^n d_i$  = the total thickness of all layers between 0 and 100 ft (30 m)

Average shear wave velocity,  $\bar{v}_s$  is also referenced to  $V_{s100}$  or  $V_{s30}$ .

The layer travel times refers to the travel times propagating in the vertical direction, not the measured travel times from an offset source.

## REFERENCES

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## CONE PENETRATION DIGITAL FILE FORMATS - eSeries

### CPT Data Files (COR Extension)

ConeTec CPT data files are stored in ASCII text files that are readable by almost any text editor. ConeTec file names start with the job number (which includes the two digit year number) an underscore as a separating character, followed by two letters based on the type of test and the sounding ID. The last character position is reserved for an identifier letter (such as b, c, d etc) used to uniquely distinguish multiple soundings at the same location. The CPT sounding file has the extension COR. As an example, for job number 21-02-00001 the first CPT sounding will have file name 21-02-00001\_CP01.COR

The sounding (COR) file consists of the following components:

1. Two lines of header information
2. Data records
3. End of data marker
4. Units information

#### Header Lines

Line 1: Columns 1-6 may be blank or may indicate the version number of the recording software

Columns 7-21 contain the sounding Date and Time (Date is MM:DD:YY)

Columns 23-38 contain the sounding Operator

Columns 51-100 contain extended Job Location information

Line 2: Columns 1-16 contain the Job Location

Columns 17-32 contain the Cone ID

Columns 33-47 contain the sounding number

Columns 51-100 may contain extended sounding ID information

#### Data Records

The data records contain 4 or more columns of data in floating point format. A comma and spaces separate each data item:

Column 1: Sounding Depth (meters)

Column 2: Tip ( $q_c$ ), recorded in units selected by the operator

Column 3: Sleeve ( $f_s$ ), recorded in units selected by the operator

Column 4: Dynamic pore pressure (u), recorded in units selected by the operator

Column 5: Empty or may contain other requested data such as Gamma, Resistivity or UVIF data

#### End of Data Marker

After the last line of data there is a line containing an ASCII 26 (CTL-Z) character (small rectangular shaped character) followed by a newline (carriage return / line feed). This is used to mark the end of data.

## Units Information

The last section of the file contains information about the units that were selected for the sounding. A separator bar makes up the first line. The second line contains the type of units used for depth,  $q_c$ ,  $f_s$  and  $u$ . The third line contains the conversion values required for ConeTec's software to convert the recorded data to an internal set of base units (bar for  $q_c$ , bar for  $f_s$  and meters for  $u$ ). Additional lines intended for internal ConeTec use may appear following the conversion values.

## CPT Data Files (XLS Extension)

Excel format files of ConeTec CPT data are also generated from corresponding COR files. The XLS files have the same base file name as the COR file with a -BSC suffix. The information in the file is presented in table format and contains additional information about the sounding such as coordinate information, and tip net area ratio.

The BSCI suffix is given to XLS files which are enhanced versions of the BSC files and include the same data records in addition to inclination data collected for each sounding.

## CPT Dissipation Files (XLS Extension)

Pore pressure dissipation files are provided in Excel format and contain each dissipation trace that exceeds a minimum duration (selected during post-processing) formatted column wise within the spreadsheet. The first column (Column A) contains the time in seconds and the second column (Column B) contains the time in minutes. Subsequent columns contain the dissipation trace data. The columns extend to the longest trace of the data set.

Detailed header information is provided at the top of the worksheet. The test depth in meters and feet, the number of points in the trace and the particular units are all presented at the top of each trace column.

CPT Dissipation files have the same naming convention as the CPT sounding files with a "-PPD" suffix.

## Data Records

Each file will contain dissipation traces that exceed a minimum duration (selected during post-processing) in a particular column. The dissipation pore pressure values are typically recorded at varying time intervals throughout the trace; rapidly to start and increasing as the duration of the test lengthens. The test depth in meters and feet, the number of points in the trace and the trace number are identified at the top of each trace column.

## Cone Type Designations

Cone ID	Cone Description	Tip Cross Sect. Area (cm <sup>2</sup> )	Tip Capacity (bar)	Sleeve Area (cm <sup>2</sup> )**	Sleeve Capacity (bar)	Pore Pressure Capacity (bar)
EC###	A15T1500F15U35	15	1500	225	15	35
EC###	A15T375F10U35	15	375	225	10	35
EC###	A10T1000F10U35	10	1000	150	10	35

### refers to the Cone ID number

\*\*Outer Cylindrical Area

## APPENDICES

**The appendices listed below are included in the Report:**

- Cone Penetration Test Summary and Standard Cone Penetration Test Plots
- Advanced Cone Penetration Test Plots
- Seismic Cone Penetration Test Plots
- Seismic Cone Penetration Test Shear Wave (Vs) Traces
- Seismic Cone Penetration Test Shear Wave (Vs) Results
- Seismic Cone Penetration Test Compression Wave (Vp) Traces
- Seismic Cone Penetration Test Compression Wave (Vp) Results
- Seismic Cone Penetration Test Poisson's Ratio Results
- Soil Behavior Type (SBT) Scatter Plots
- Pore Pressure Dissipation Summary and Pore Pressure Dissipation Plots

## **Cone Penetration Test Summary and Standard Cone Penetration Test Plots**



**Job No:** 23-53-26729  
**Client:** CME Associates  
**Project:** Proposed Micron Plant, Clay, NY  
**Start Date:** 23-Oct-2023  
**End Date:** 28-Oct-2023

### CONE PENETRATION TEST SUMMARY

Sounding ID	File Name	Date	Rig	Cone	Cone Area (cm <sup>2</sup> )	Assumed Phreatic Surface <sup>1</sup> (ft)	Final Depth (ft)	Shear Wave Velocity Tests	Compression Wave Velocity Tests	Northing <sup>2</sup> (m)	Easting <sup>2</sup> (m)	Refer to Notation Number
CPT23-B-004	23-53-26729_CPB-004	25-Oct-2023	TC-7	604:T1500F15U35	15	7.7	24.03			4783255	405402	3
CPT23-B-006	23-53-26729_CPB-006	25-Oct-2023	TC-7	604:T1500F15U35	15	7.1	23.38			4783259	405526	3
CPT23-B-008	23-53-26729_CPB-008	25-Oct-2023	TC-7	604:T1500F15U35	15	7.3	23.87			4783184	405225	3
CPT23-B-014	23-53-26729_CPB-014	25-Oct-2023	TC-7	604:T1500F15U35	15	7.1	21.90			4783216	405656	3
CPT23-B-016	23-53-26729_CPB-016	25-Oct-2023	TC-7	604:T1500F15U35	15	6.6	21.49			4783123	405290	3
CPT23-B-021	23-53-26729_CPB-021	25-Oct-2023	TC-7	604:T1500F15U35	15	5.2	21.57			4783063	405235	3
CPT23-B-022	23-53-26729_CPB-022	25-Oct-2023	TC-7	604:T1500F15U35	15	6.5	19.03			4783076	405537	3
CPT23-B-060	23-53-26729_CPB-060	24-Oct-2023	TC-7	604:T1500F15U35	15		15.91			4782561	405685	5
CPT23-B-064	23-53-26729_CPB-064	23-Oct-2023	TC-7	604:T1500F15U35	15		5.66			4782566	405331	5
CPT23-B-064A	23-53-26729_CPB-064A	23-Oct-2023	TC-7	604:T1500F15U35	15		5.66			4782574	405430	5
CPT23-B-066	23-53-26729_CPB-066	23-Oct-2023	TC-7	604:T1500F15U35	15		5.25			4782577	405304	5
CPT23-B-066A	23-53-26729_CPB-066A	23-Oct-2023	TC-7	604:T1500F15U35	15		5.41			4782578	405304	5
CPT23-B-070	23-53-26729_CPB-070	24-Oct-2023	TC-7	604:T1500F15U35	15	5.7	11.07			4782528	405678	3
CPT23-B-073	23-53-26729_CPB-073	23-Oct-2023	TC-7	604:T1500F15U35	15		9.10			4782536	405496	5
CPT23-B-074	23-53-26729_CPB-074	23-Oct-2023	TC-7	604:T1500F15U35	15		1.64			4782535	405441	5
CPT23-B-074A	23-53-26729_CPB-074A	23-Oct-2023	TC-7	604:T1500F15U35	15		5.09			4782536	405438	5
CPT23-B-075	23-53-26729_CPB-075	23-Oct-2023	TC-7	604:T1500F15U35	15		6.15			4782534	405362	5
CPT23-B-076	23-53-26729_CPB-076	23-Oct-2023	TC-7	604:T1500F15U35	15		5.91			4782537	405311	5
CPT23-B-077	23-53-26729_CPB-077	23-Oct-2023	TC-7	604:T1500F15U35	15		8.37			4782533	405264	5
CPT23-B-078	23-53-26729_CPB-078	25-Oct-2023	TC-7	604:T1500F15U35	15		8.37			4782533	405733	5
CPT23-B-080	23-53-26729_CPB-080	24-Oct-2023	TC-7	604:T1500F15U35	15	9.4	15.34			4782485	405681	3
CPT23-B-084	23-53-26729_CPB-084	23-Oct-2023	TC-7	604:T1500F15U35	15		6.23			4782502	405427	5
CPT23-B-086	23-53-26729_CPB-086	23-Oct-2023	TC-7	604:T1500F15U35	15		6.56			4782506	405306	5
CPT23-B-092	23-53-26729_CPB-092	23-Oct-2023	TC-7	604:T1500F15U35	15		12.06			4782439	405546	5
CPT23-B-093	23-53-26729_CPB-093	23-Oct-2023	TC-7	604:T1500F15U35	15		8.53			4782440	405488	5
CPT23-B-095	23-53-26729_CPB-095	24-Oct-2023	TC-7	604:T1500F15U35	15		6.07			4782440	405366	5
CPT23-B-097	23-53-26729_CPB-097	23-Oct-2023	TC-7	604:T1500F15U35	15		10.01			4782444	405240	5
CPT23-B-098	23-53-26729_CPB-098	25-Oct-2023	TC-7	604:T1500F15U35	15		11.32			4782436	405738	5
CPT23-B-102	23-53-26729_CPB-102	24-Oct-2023	TC-7	604:T1500F15U35	15		9.68			4782407	405552	5
CPT23-B-104	23-53-26729_CPB-104	24-Oct-2023	TC-7	604:T1500F15U35	15		4.43			4782390	405424	5
CPT23-B-106	23-53-26729_CPB-106	24-Oct-2023	TC-7	604:T1500F15U35	15		7.38			4782406	405306	5





**Job No:** 23-53-26729  
**Client:** CME Associates  
**Project:** Proposed Micron Plant, Clay, NY  
**Start Date:** 23-Oct-2023  
**End Date:** 28-Oct-2023

### CONE PENETRATION TEST SUMMARY

Sounding ID	File Name	Date	Rig	Cone	Cone Area (cm <sup>2</sup> )	Assumed Phreatic Surface <sup>1</sup> (ft)	Final Depth (ft)	Shear Wave Velocity Tests	Compression Wave Velocity Tests	Northing <sup>2</sup> (m)	Easting <sup>2</sup> (m)	Refer to Notation Number
CPT23-B-107	23-53-26729_CPB-107	25-Oct-2023	TC-7	604:T1500F15U35	15	9.8	17.72			4782397	405742	3
CPT23-B-112	23-53-26729_CPB-112	24-Oct-2023	TC-7	604:T1500F15U35	15	8.4	9.35			4782363	405534	3
CPT23-B-113	23-53-26729_CPB-113	24-Oct-2023	TC-7	604:T1500F15U35	15	8.4	10.01			4782359	405498	4
CPT23-B-115	23-53-26729_CPB-115	24-Oct-2023	TC-7	604:T1500F15U35	15		6.64			4782356	405372	5
CPT23-B-120	23-53-26729_CPB-120	24-Oct-2023	TC-7	604:T1500F15U35	15		8.45			4782336	405417	5
CPT23-B-208	23-53-26729_CPB-208	27-Oct-2023	TC-7	606:T1500F15U35	15		21.90			4782904	406684	5
CPT23-B-221	23-53-26729_CPB-221	27-Oct-2023	TC-7	606:T1500F15U35	15		15.17			4783038	406405	5
CPT23-B-222	23-53-26729_CPB-222	27-Oct-2023	TC-7	606:T1500F15U35	15		17.55			4783002	406458	5
CPT23-B-225	23-53-26729_CPB-225	27-Oct-2023	TC-7	606:T1500F15U35	15		23.95			4782889	406600	5
SCPT23-B-228	23-53-26729_SPB-228	27-Oct-2023	TC-7	606:T1500F15U35	15	5.2	5.00			4782803	406617	3
SCPT23-B-228A	23-53-26729_SPB-228A	27-Oct-2023	TC-7	606:T1500F15U35	15	5.2	23.62	3	3	4782805	406616	3
CPT23-B-237	23-53-26729_CPB-237	27-Oct-2023	TC-7	606:T1500F15U35	15	9.4	16.57			4782977	406285	3
CPT23-B-238	23-53-26729_CPB-238	27-Oct-2023	TC-7	606:T1500F15U35	15	10.2	18.70			4782942	406333	3
CPT23-B-243	23-53-26729_CPB-243	26-Oct-2023	TC-7	604:T1500F15U35	15	7.6	11.89			4782901	406077	3
CPT23-B-244	23-53-26729_CPB-244	26-Oct-2023	TC-7	604:T1500F15U35	15		21.24			4782940	406022	5
CPT23-B-246	23-53-26729_CPB-246	26-Oct-2023	TC-7	606:T1500F15U35	15		12.71			4782950	405893	5
CPT23-B-252	23-53-26729_CPB-252	26-Oct-2023	TC-7	606:T1500F15U35	15	4.7	23.87			4783005	405730	3
CPT23-B-261	23-53-26729_CPB-261	26-Oct-2023	TC-7	606:T1500F15U35	15		22.72			4783025	405815	5
CPT23-B-262	23-53-26729_CPB-262	26-Oct-2023	TC-7	606:T1500F15U35	15	8.9	21.98			4782994	405928	3
CPT23-B-270	23-53-26729_CPB-270	26-Oct-2023	TC-7	606:T1500F15U35	15		17.72			4783073	405910	5
CPT23-B-280	23-53-26729_CPB-280	26-Oct-2023	TC-7	606:T1500F15U35	15		18.29			4783111	405890	5
CPT23-B-282	23-53-26729_CPB-282	26-Oct-2023	TC-7	606:T1500F15U35	15		20.59			4783220	405930	5
SCPT23-B-293	23-53-26729_SPB-293	27-Oct-2023	TC-7	606:T1500F15U35	15	3.4	15.99	3	3	4783206	406149	3
CPT23-B-312	23-53-26729_CPB-312	26-Oct-2023	TC-7	604:T1500F15U35	15	5.9	26.82			4782765	406355	3
CPT23-B-325	23-53-26729_CPB-325	28-Oct-2023	TC-7	606:T1500F15U35	15		20.67			4782627	406459	5
CPT23-B-327	23-53-26729_CPB-327	28-Oct-2023	TC-7	606:T1500F15U35	15	2.8	22.39			4782553	406579	3
CPT23-B-329	23-53-26729_CPB-329	28-Oct-2023	TC-7	606:T1500F15U35	15	8.4	24.77			4782556	406475	3
CPT23-B-330	23-53-26729_CPB-330	28-Oct-2023	TC-7	606:T1500F15U35	15	8.2	23.62			4782560	406351	3
SCPT23-B-332	23-53-26729_SPB-332	28-Oct-2023	TC-7	606:T1500F15U35	15	5.2	15.91	3	3	4782558	406102	3
CPT23-B-345	23-53-26729_CPB-345	27-Oct-2023	TC-7	606:T1500F15U35	15		14.76			4782374	406153	5
CPT23-B-351	23-53-26729_CPB-351	27-Oct-2023	TC-7	606:T1500F15U35	15	9.5	21.41			4782409	406505	3



**Job No:** 23-53-26729  
**Client:** CME Associates  
**Project:** Proposed Micron Plant, Clay, NY  
**Start Date:** 23-Oct-2023  
**End Date:** 28-Oct-2023

### CONE PENETRATION TEST SUMMARY

Sounding ID	File Name	Date	Rig	Cone	Cone Area (cm <sup>2</sup> )	Assumed Phreatic Surface <sup>1</sup> (ft)	Final Depth (ft)	Shear Wave Velocity Tests	Compression Wave Velocity Tests	Northing <sup>2</sup> (m)	Easting <sup>2</sup> (m)	Refer to Notation Number
CPT23-B-360	23-53-26729_CPB-360	28-Oct-2023	TC-7	606:T1500F15U35	15		16.57			4782560	405998	5
CPT23-B-362	23-53-26729_CPB-362	28-Oct-2023	TC-7	606:T1500F15U35	15		18.21			4782651	405887	5
CPT23-B-365	23-53-26729_CPB-365	28-Oct-2023	TC-7	606:T1500F15U35	15		2.63			4782724	405704	5
CPT23-B-365A	23-53-26729_CPB-365A	28-Oct-2023	TC-7	606:T1500F15U35	15		6.32			4782716	405705	5
CPT23-B-371	23-53-26729_CPB-371	28-Oct-2023	TC-7	606:T1500F15U35	15	3.2	16.49			4782809	405685	3
CPT23-B-372	23-53-26729_CPB-372	28-Oct-2023	TC-7	606:T1500F15U35	15	4.4	17.39			4782756	405814	3
CPT23-B-381	23-53-26729_CPB-381	28-Oct-2023	TC-7	606:T1500F15U35	15	8.4	20.26			4782851	405725	3
CPT23-B-383	23-53-26729_CPB-383	28-Oct-2023	TC-7	606:T1500F15U35	15	8.6	22.88			4782758	405878	3
Totals	70 Soundings						1019.18 ft	9 Tests				

1. The assumed phreatic surface was based off the shallowest pore pressure dissipation test performed within the sounding. Hydrostatic conditions were assumed for the calculated parameters.

2. The coordinates were collected using a handheld Garmin GPS MAP 64s receiver. EPSG number: 32618 (WGS84 / UTM Zone 18 North).

3. The assumed phreatic surface was based off the dynamic pore pressure data.

4. The assumed phreatic surface was based off an adjacent CPT sounding.

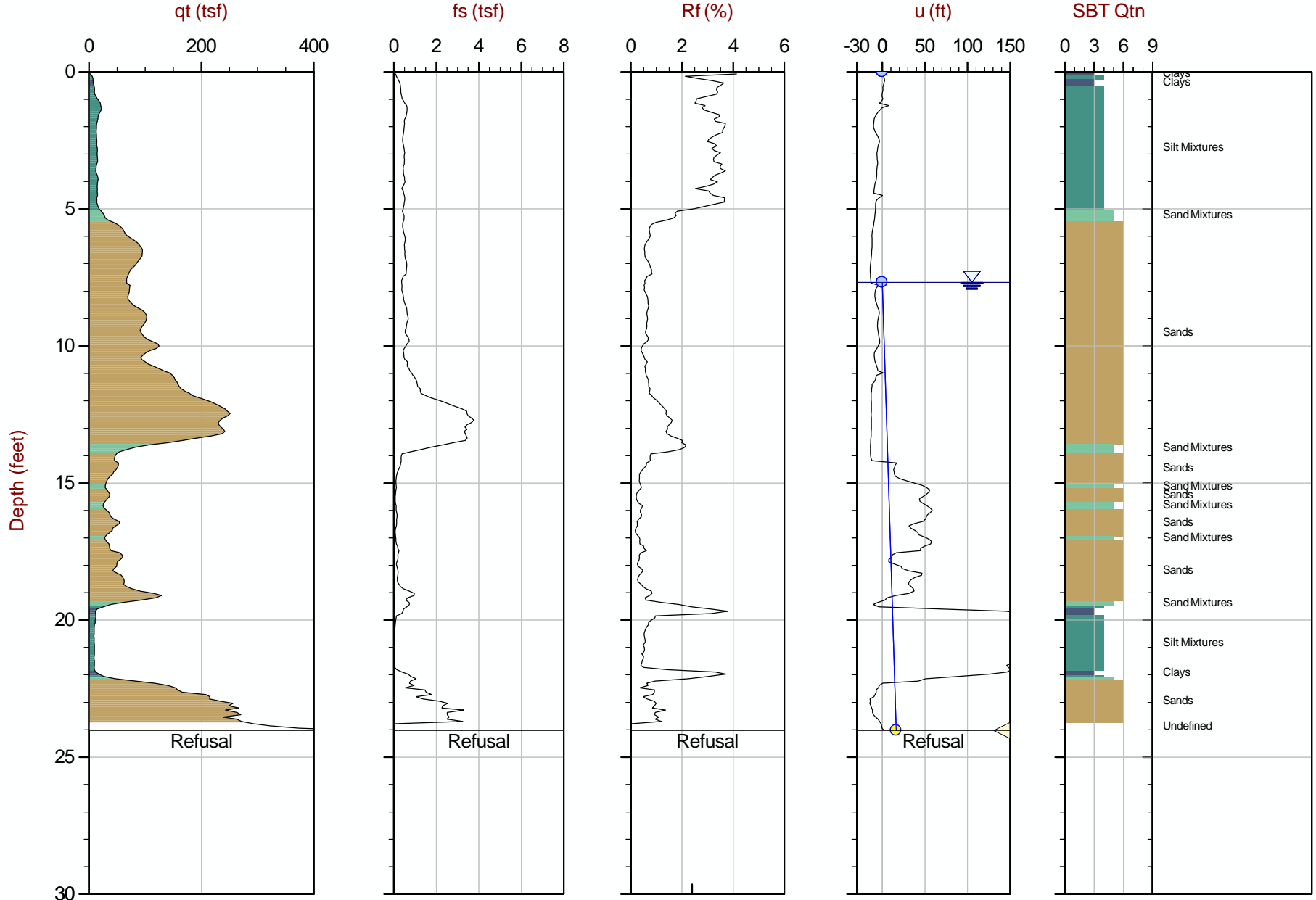
5. No phreatic surface detected.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 12:03  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-004  
Cone: 604:T1500F15U35



Max Depth: 7.325 m / 24.03 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-004.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783255m E: 405402m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◁ PPD, Ueq achieved   ◁ PPD, Ueq not achieved

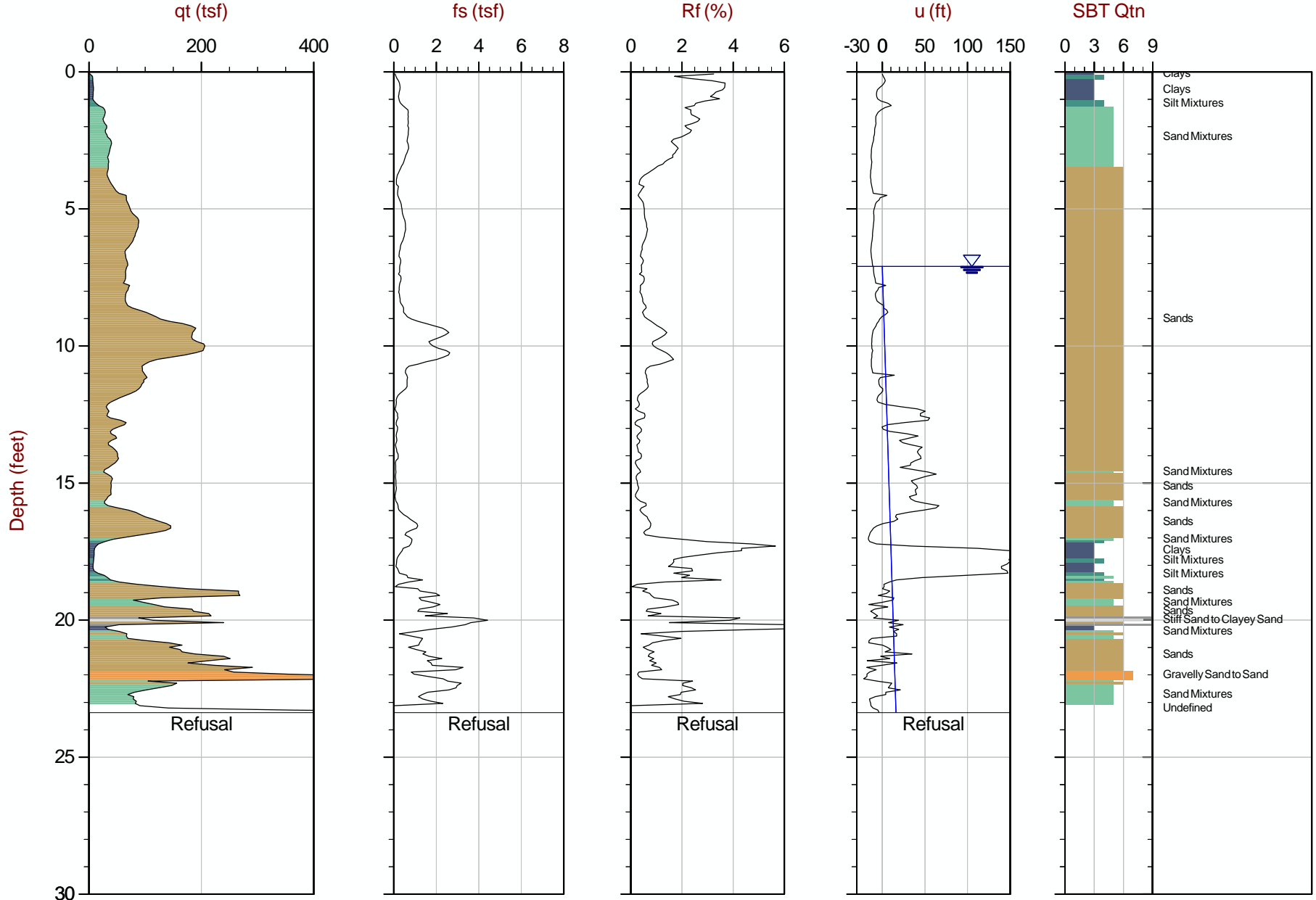
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 12:43  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-006  
Cone: 604:T1500F15U35



Max Depth: 7.125 m / 23.38 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-006.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783259m E: 405526m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

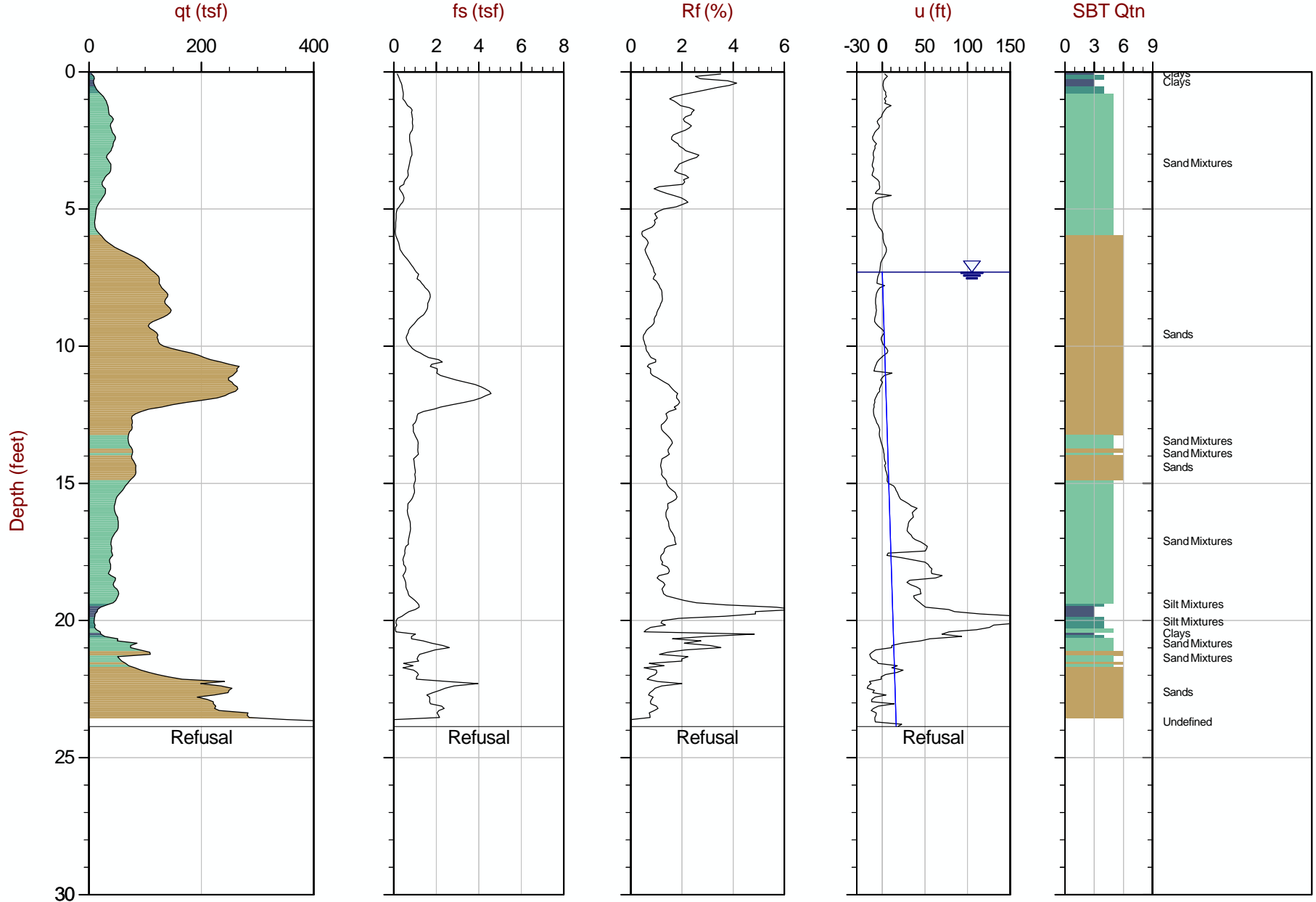
Job No: 23-53-26729

Date: 2023-10-25 10:45

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-008

Cone: 604:T1500F15U35



Max Depth: 7.275 m / 23.87 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-008.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783184m E: 405225m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

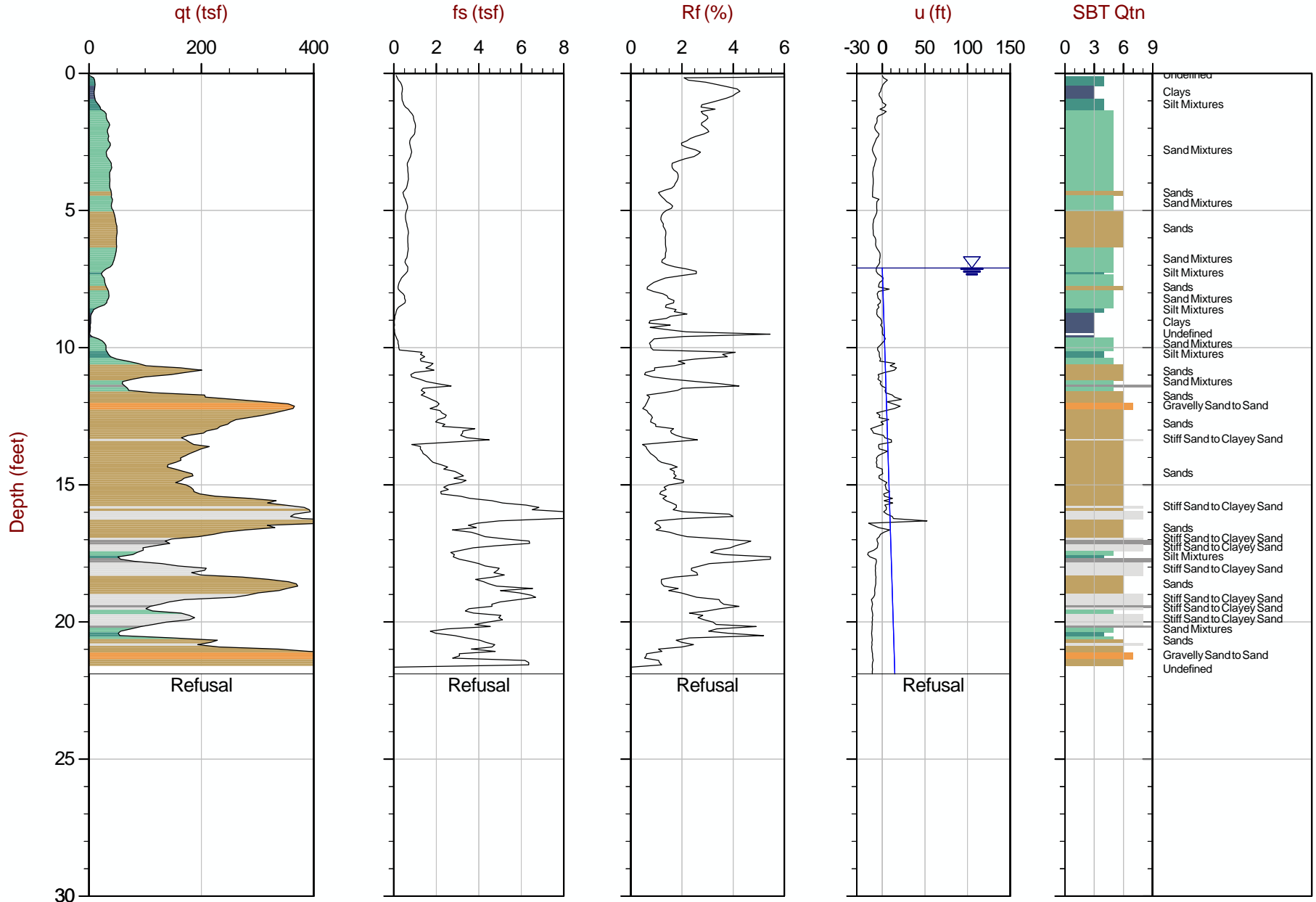
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 15:20  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-014  
Cone: 604:T1500F15U35



Max Depth: 6.675 m / 21.90 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-014.COR  
Unit Wt: SBTQtn(PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783216m E: 405656m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◁ PPD, Ueq achieved   ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

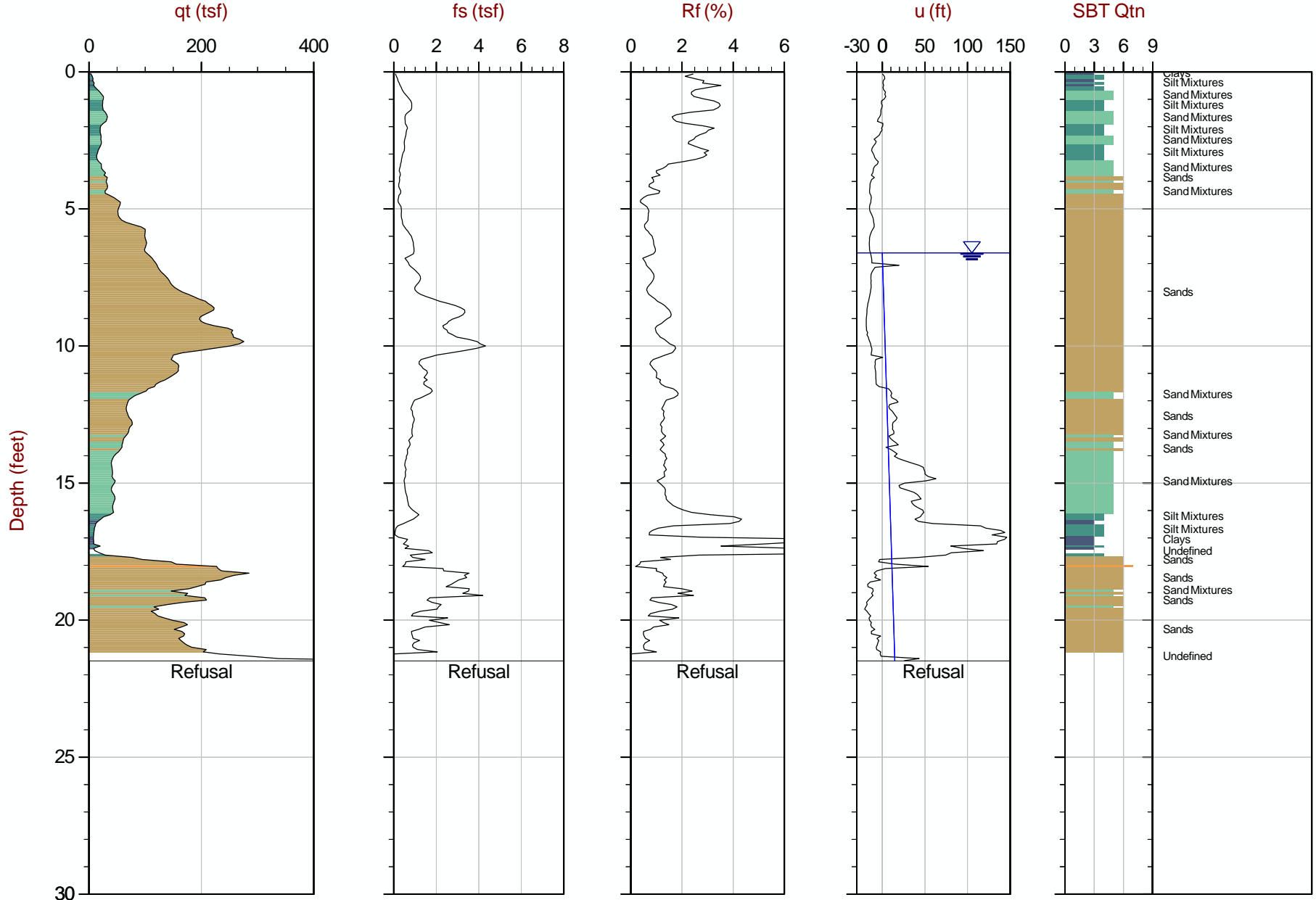
Job No: 23-53-26729

Date: 2023-10-25 11:24

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-016

Cone: 604:T1500F15U35



Max Depth: 6.550 m / 21.49 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-016.COR  
Unit Wt: SBTQtn(PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783123m E: 405290m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

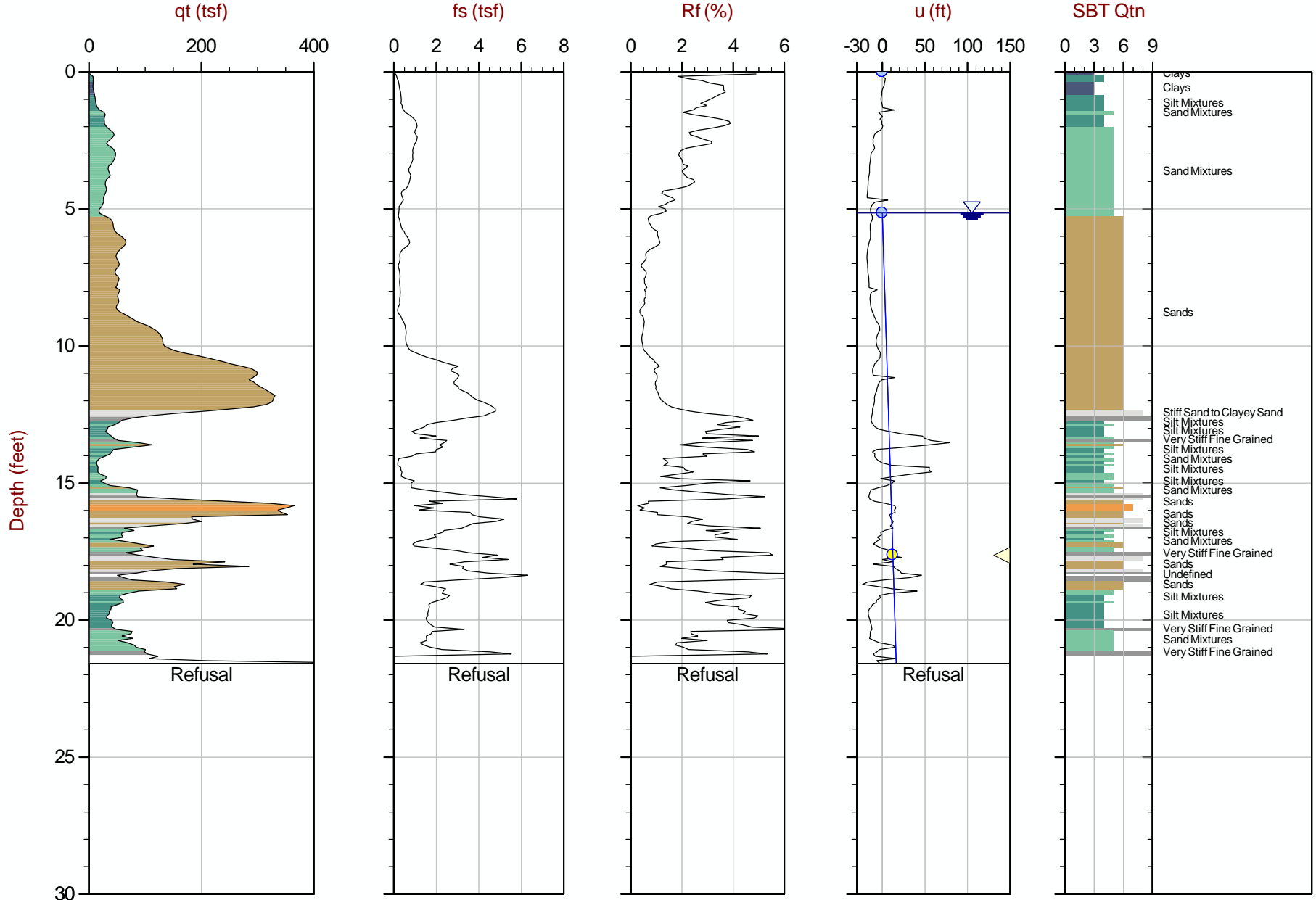
Job No: 23-53-26729

Date: 2023-10-25 09:58

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-021

Cone: 604:T1500F15U35



Max Depth: 6.575 m / 21.57 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-021.COR  
Unit Wt: SBTQtn(PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783063m E: 405235m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◁ PPD, Ueq achieved   ▷ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.





**CME Associates**

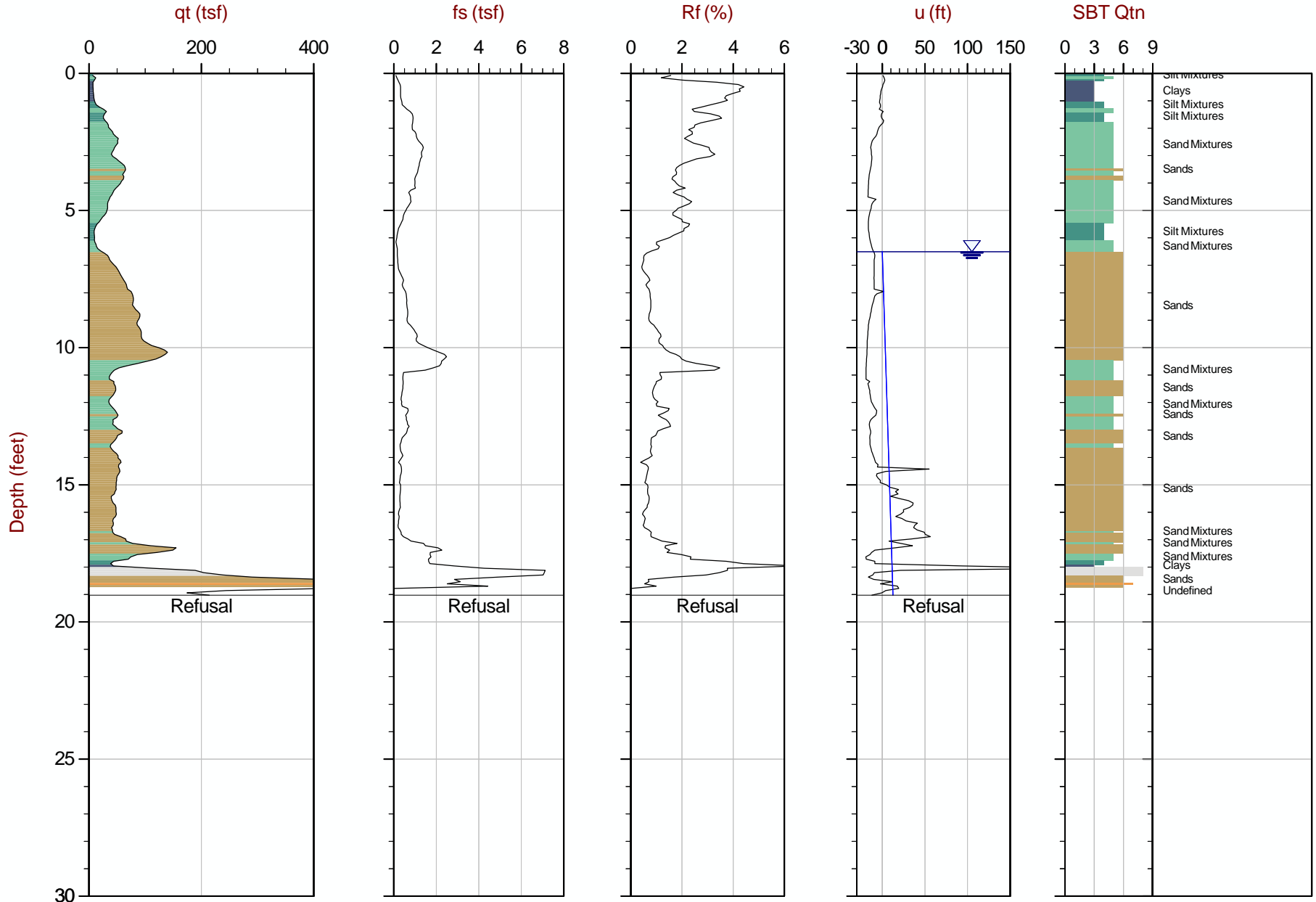
Job No: 23-53-26729

Date: 2023-10-25 14:36

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-022

Cone: 604:T1500F15U35



Max Depth: 5.800 m / 19.03 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-022.COR  
Unit Wt: SBTQtn(PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783076m E: 405537m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

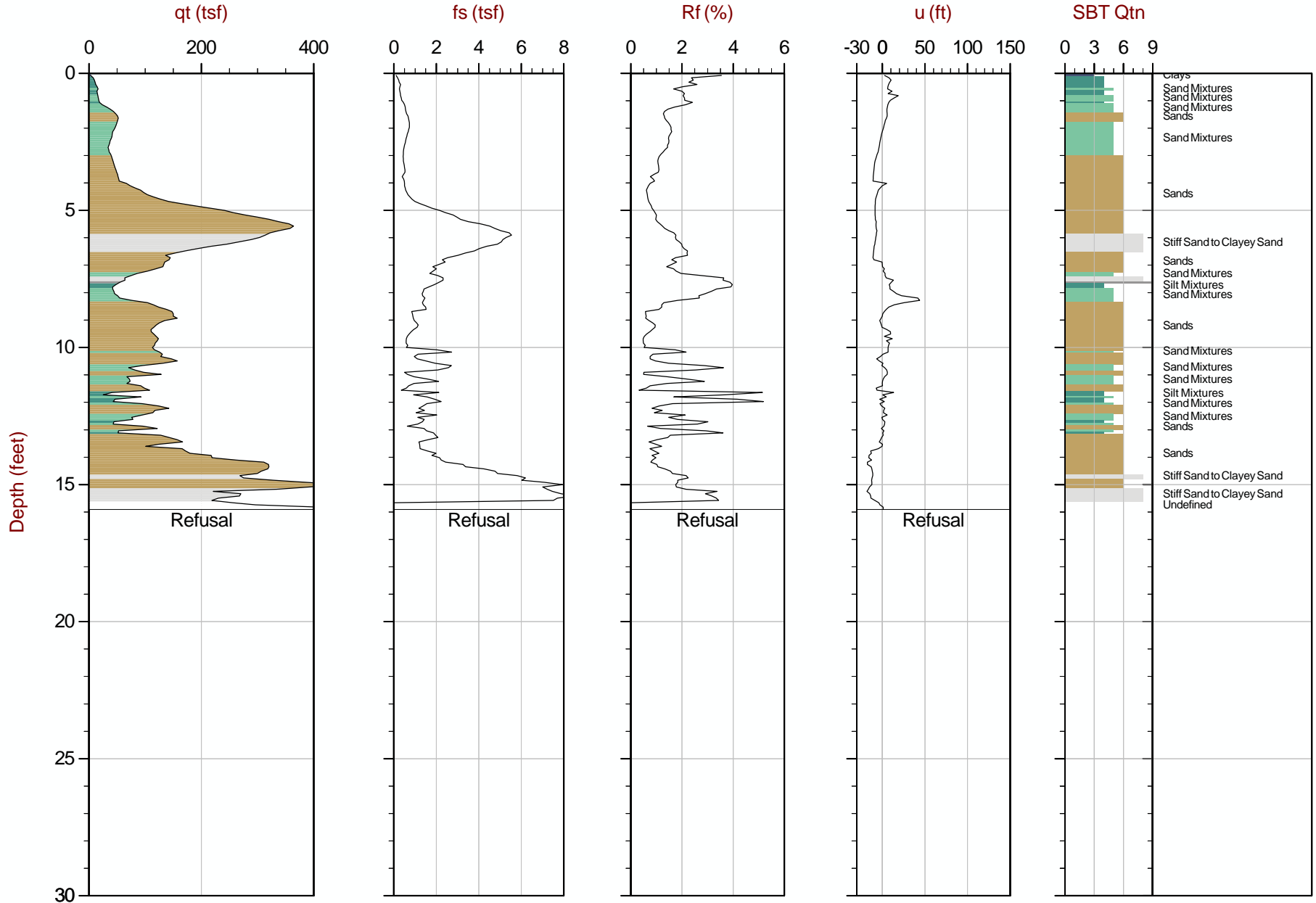
Job No: 23-53-26729

Date: 2023-10-24 13:10

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-060

Cone: 604:T1500F15U35



Max Depth: 4.850 m / 15.91 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-060.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782561m E: 405685m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

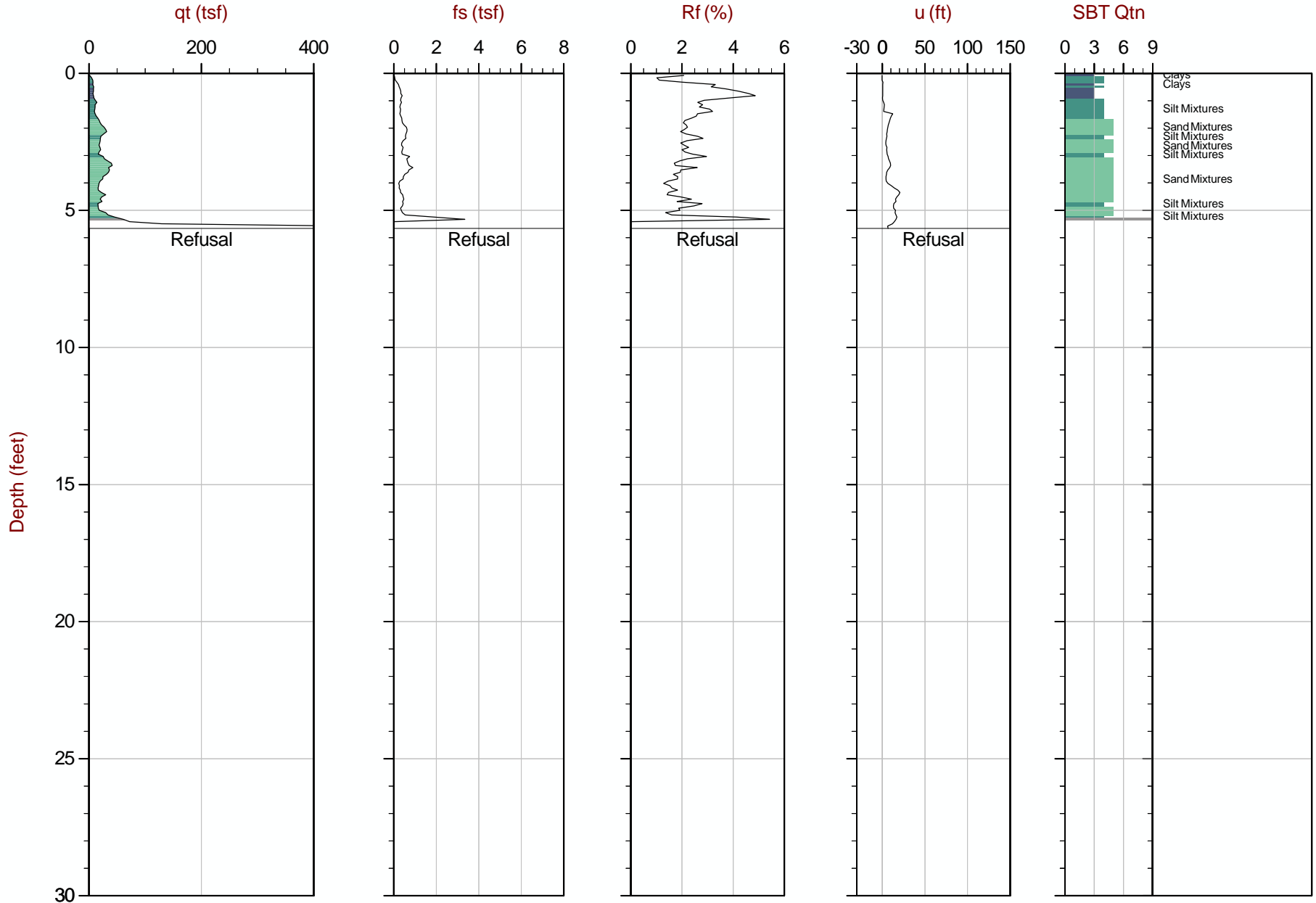
Job No: 23-53-26729

Date: 2023-10-23 09:05

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-064

Cone: 604:T1500F15U35



Max Depth: 1.725 m / 5.66 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-064.COR  
Unit Wt: SBTQtn(PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782566m E: 405331m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

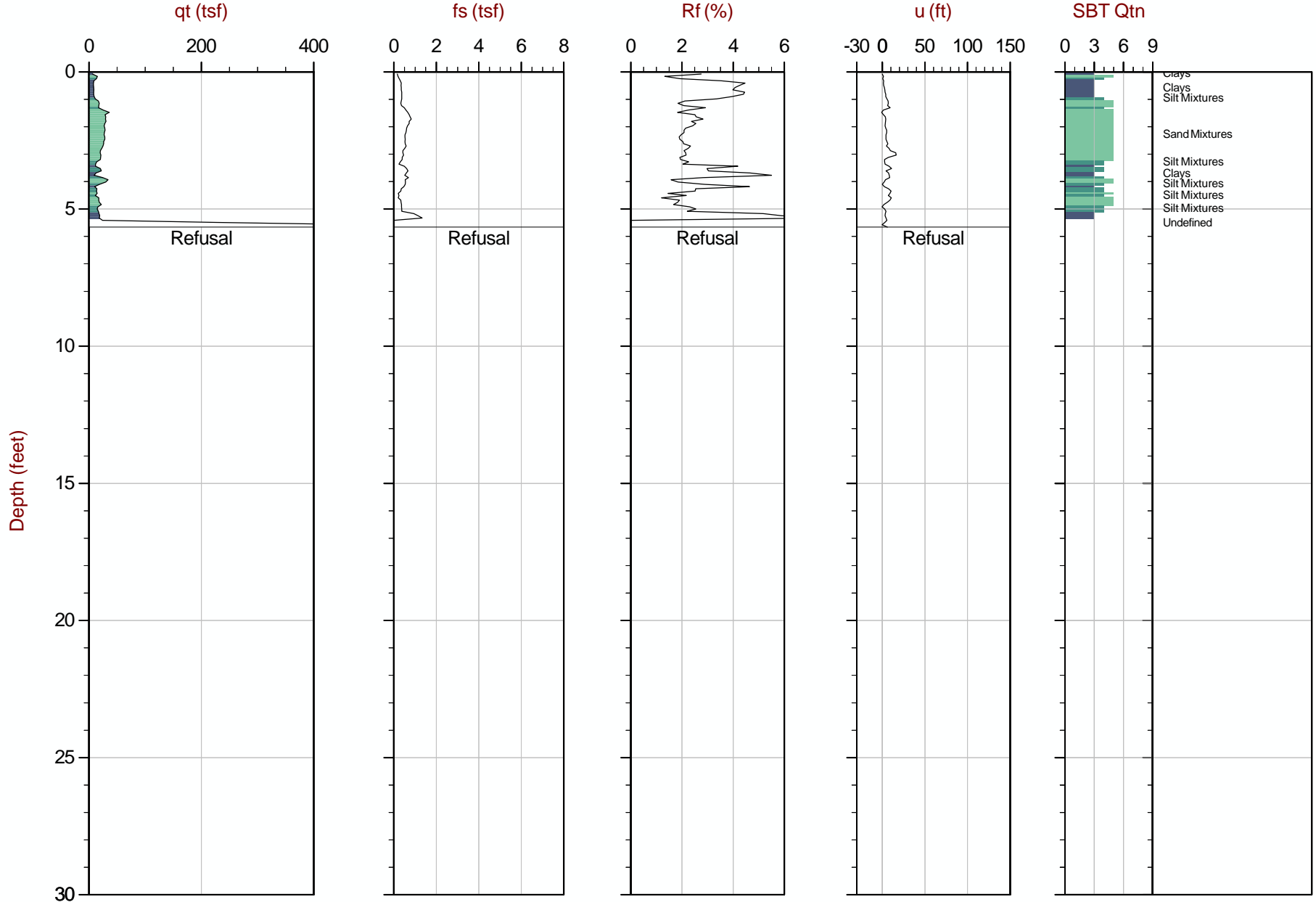
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 09:29  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-064A  
Cone: 604:T1500F15U35



Max Depth: 1.725 m / 5.66 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-064A.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782574m E: 405430m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

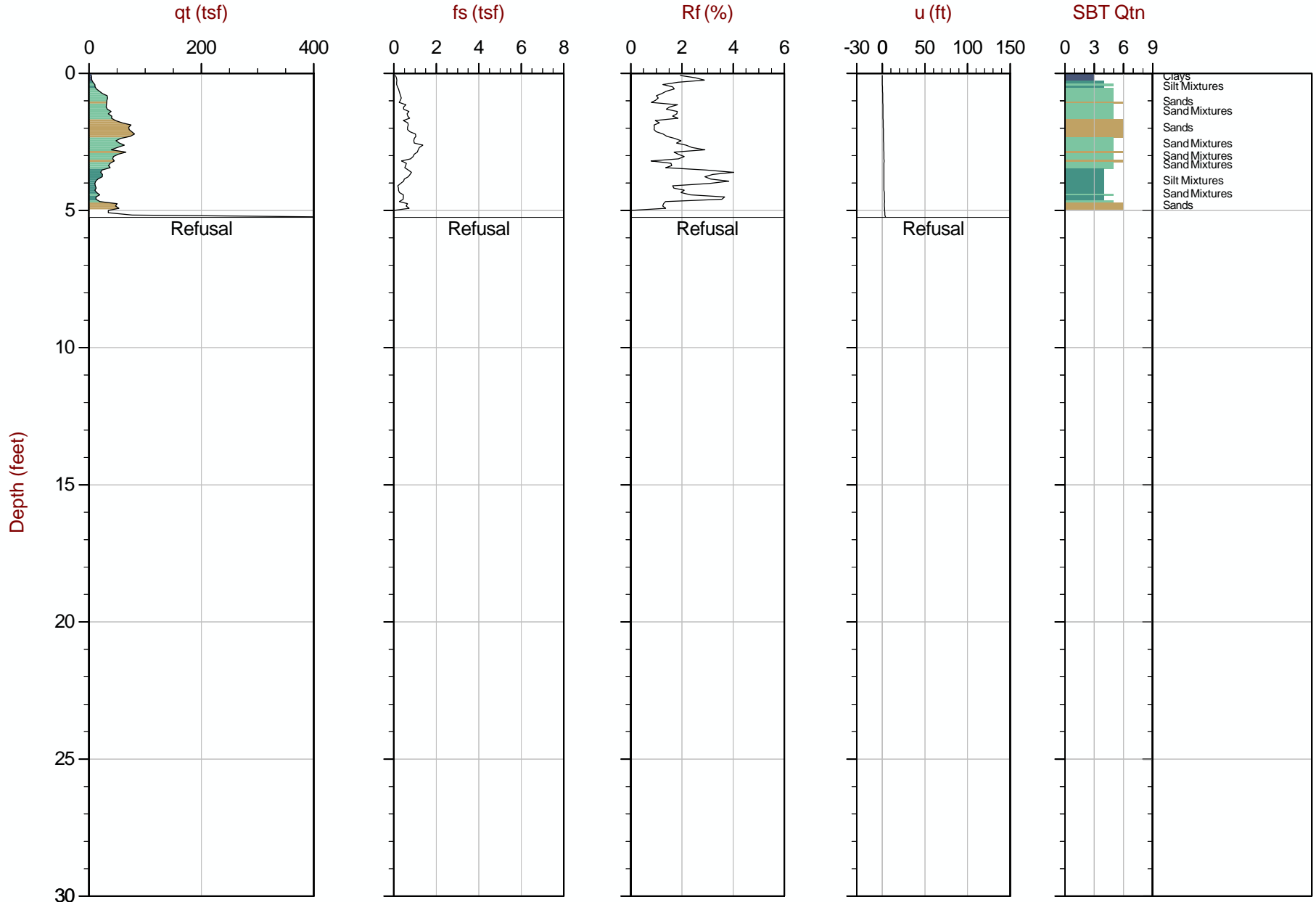
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 07:02  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-066  
Cone: 604:T1500F15U35



Max Depth: 1.600 m / 5.25 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-066.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782577m E: 405304m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

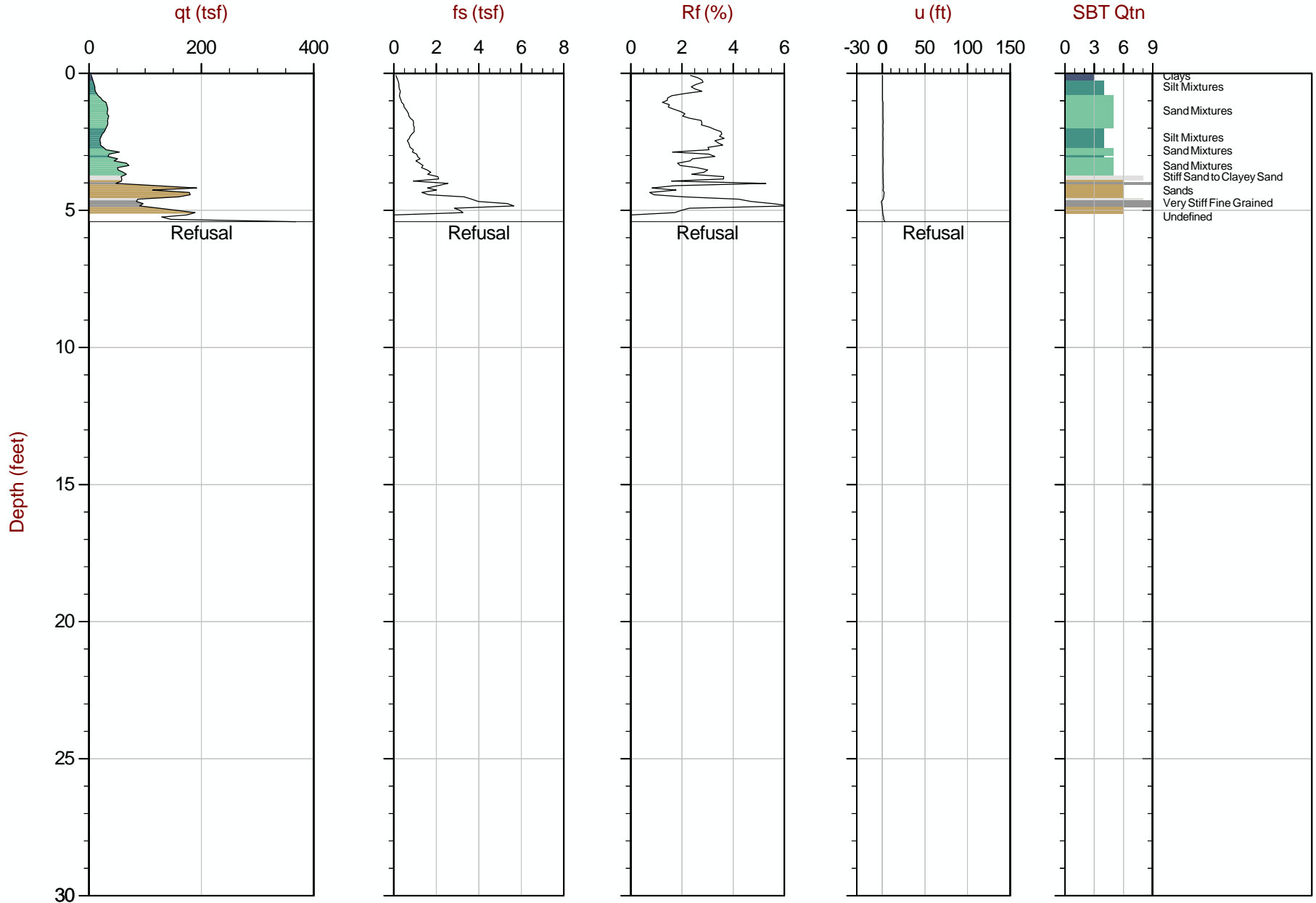
Job No: 23-53-26729

Date: 2023-10-23 08:36

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-066A

Cone: 604:T1500F15U35



Max Depth: 1.650 m / 5.41 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-066A.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782578m E: 405304m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

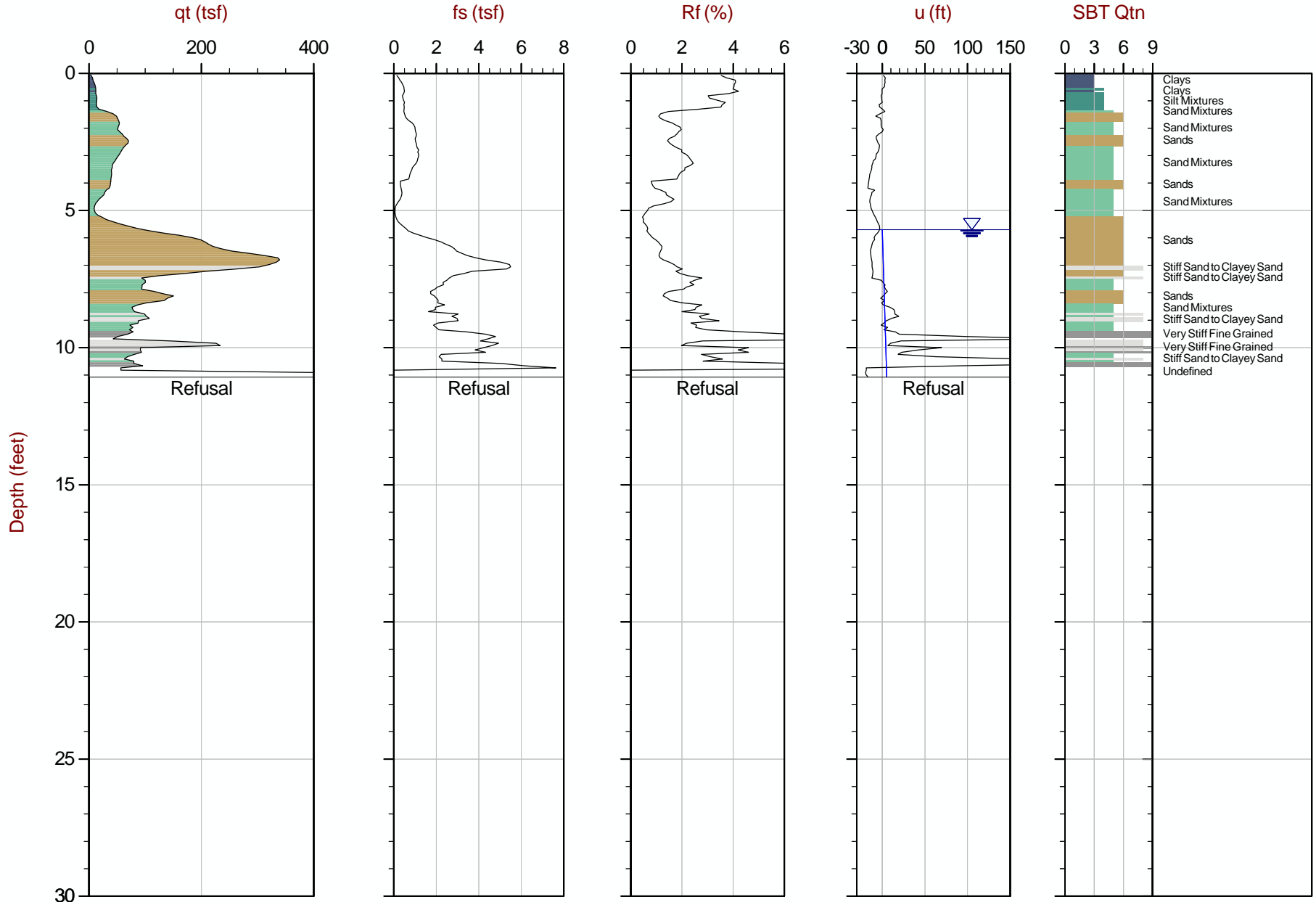
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 13:47  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-070  
Cone: 604:T1500F15U35



Max Depth: 3.375 m / 11.07 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-070.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782528m E: 405678m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

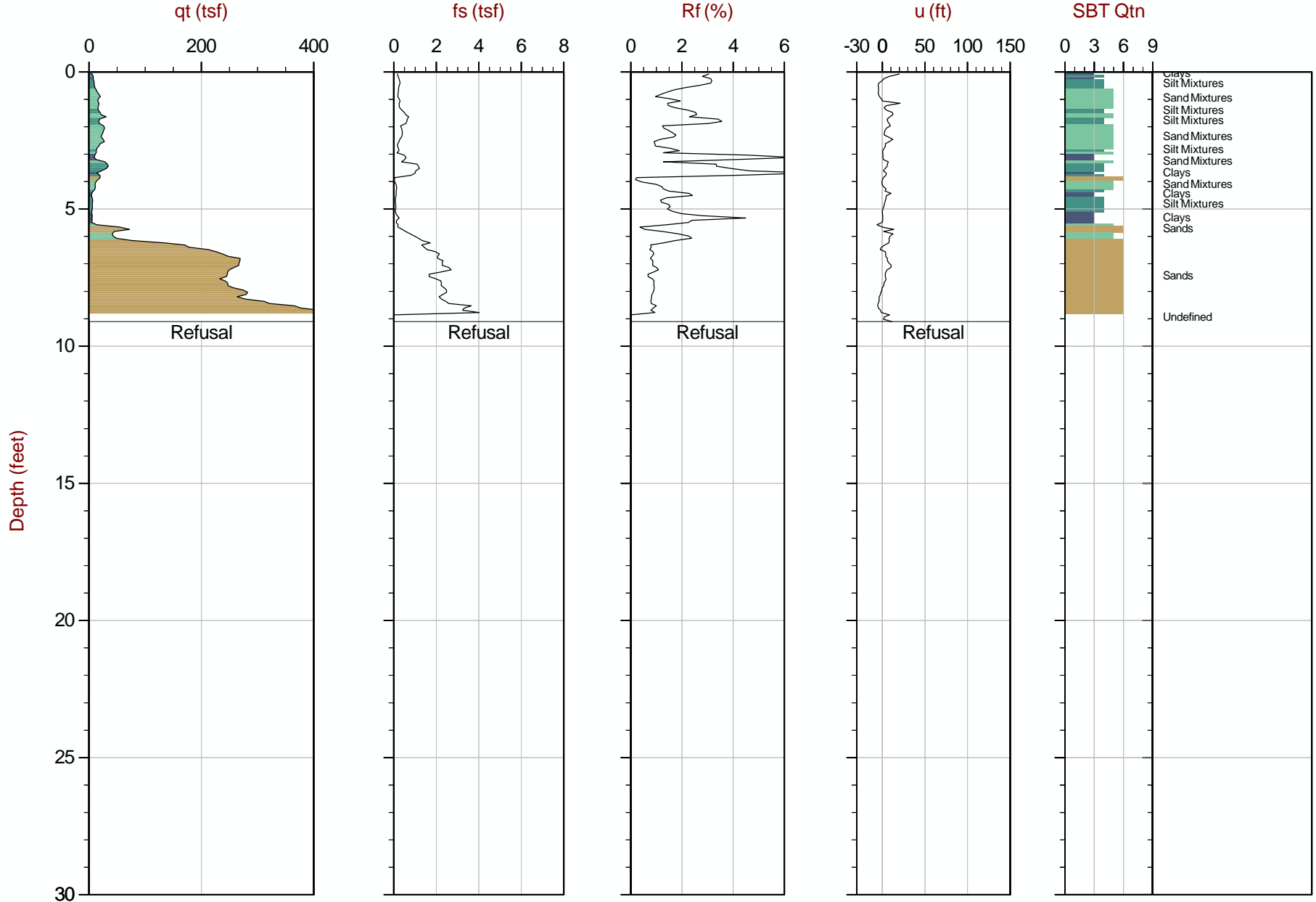
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 10:47  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-073  
Cone: 604:T1500F15U35



Max Depth: 2.775 m / 9.10 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-073.COR  
Unit Wt: SBTQtn(PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782536m E: 405496m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.





**CME Associates**

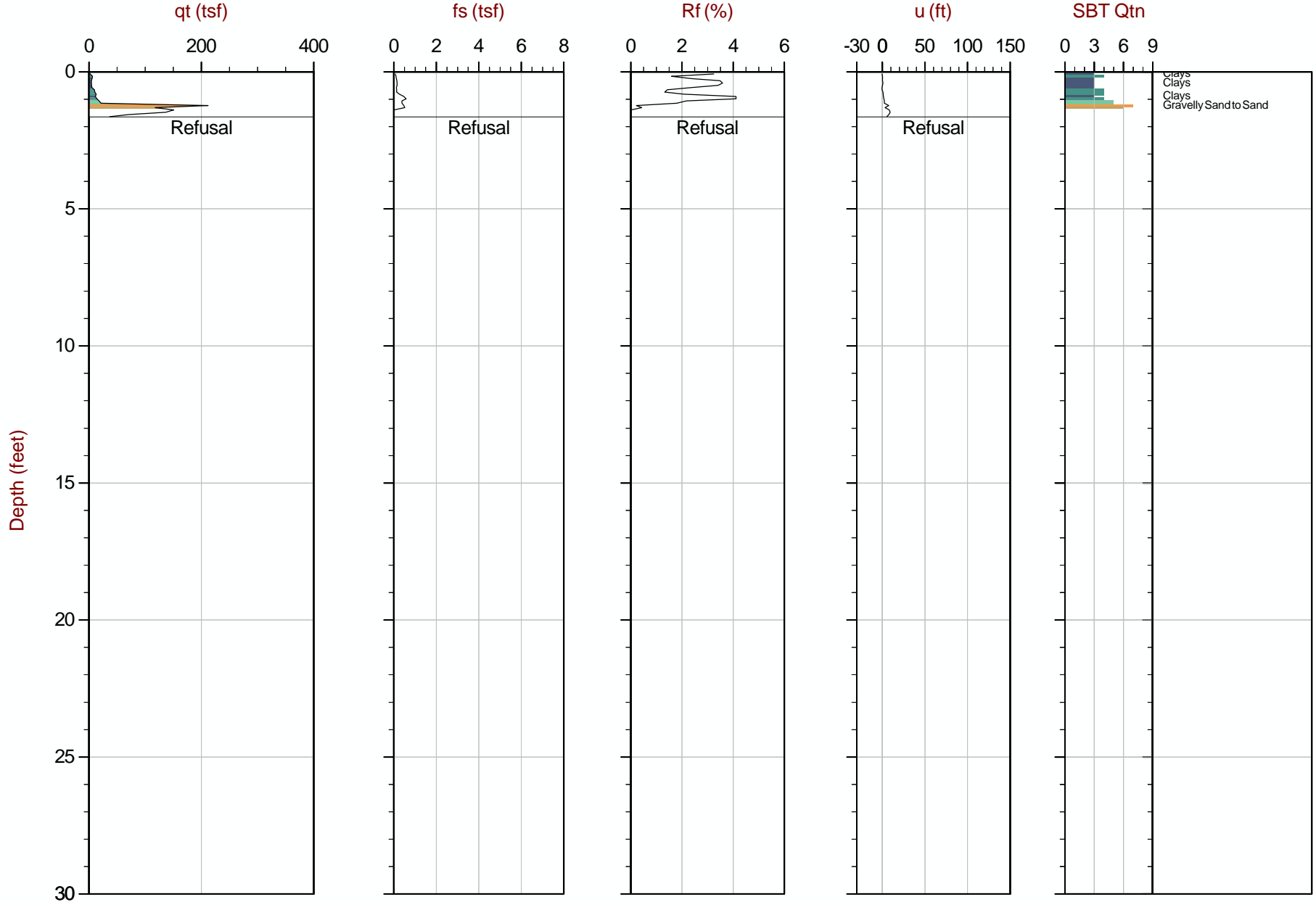
Job No: 23-53-26729

Date: 2023-10-23 09:58

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-074

Cone: 604:T1500F15U35



Max Depth: 0.500 m / 1.64 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-074.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782535m E: 405441m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

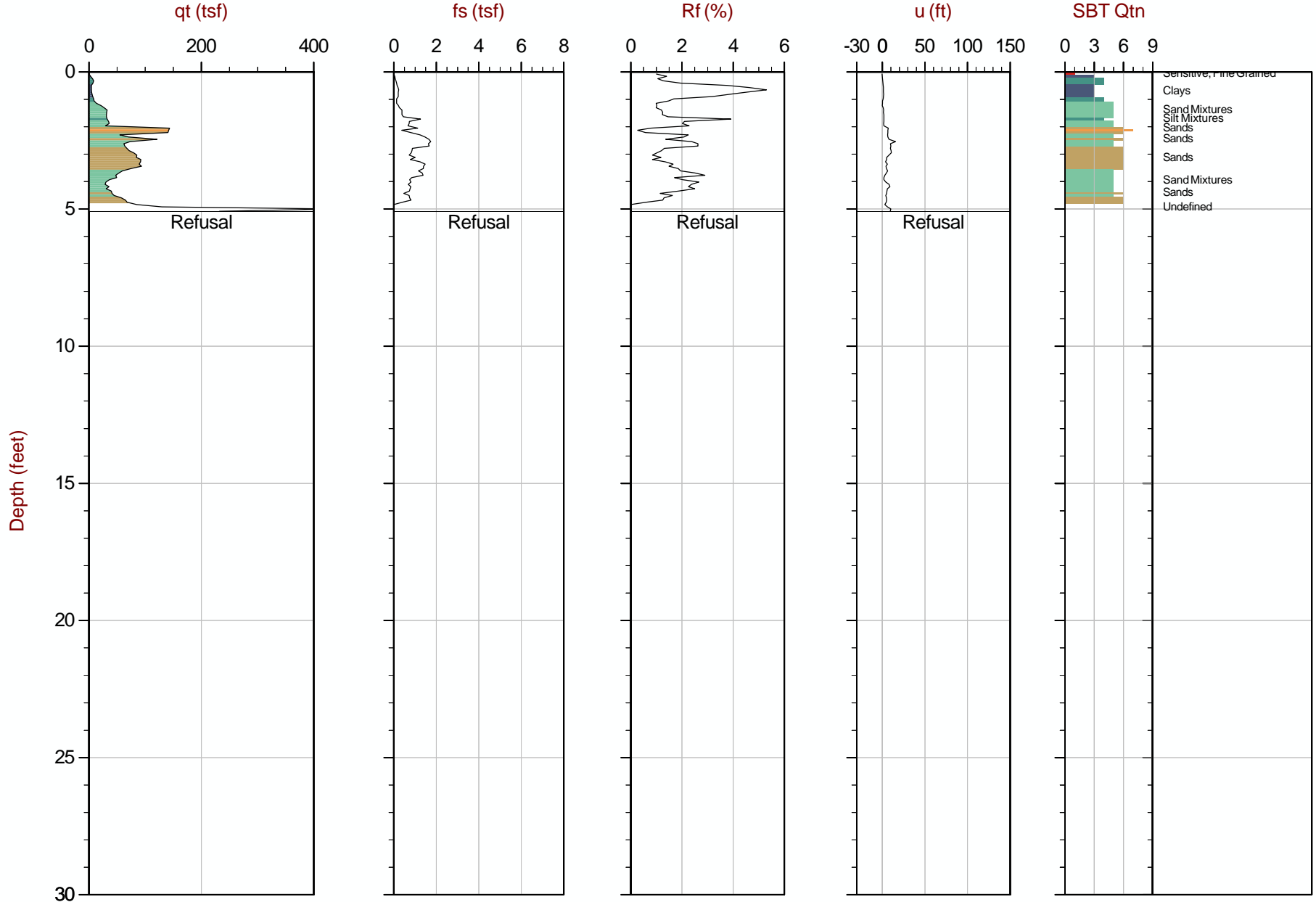
Job No: 23-53-26729

Date: 2023-10-23 10:17

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-074A

Cone: 604:T1500F15U35



Max Depth: 1.550 m / 5.09 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-074A.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782536m E: 405438m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

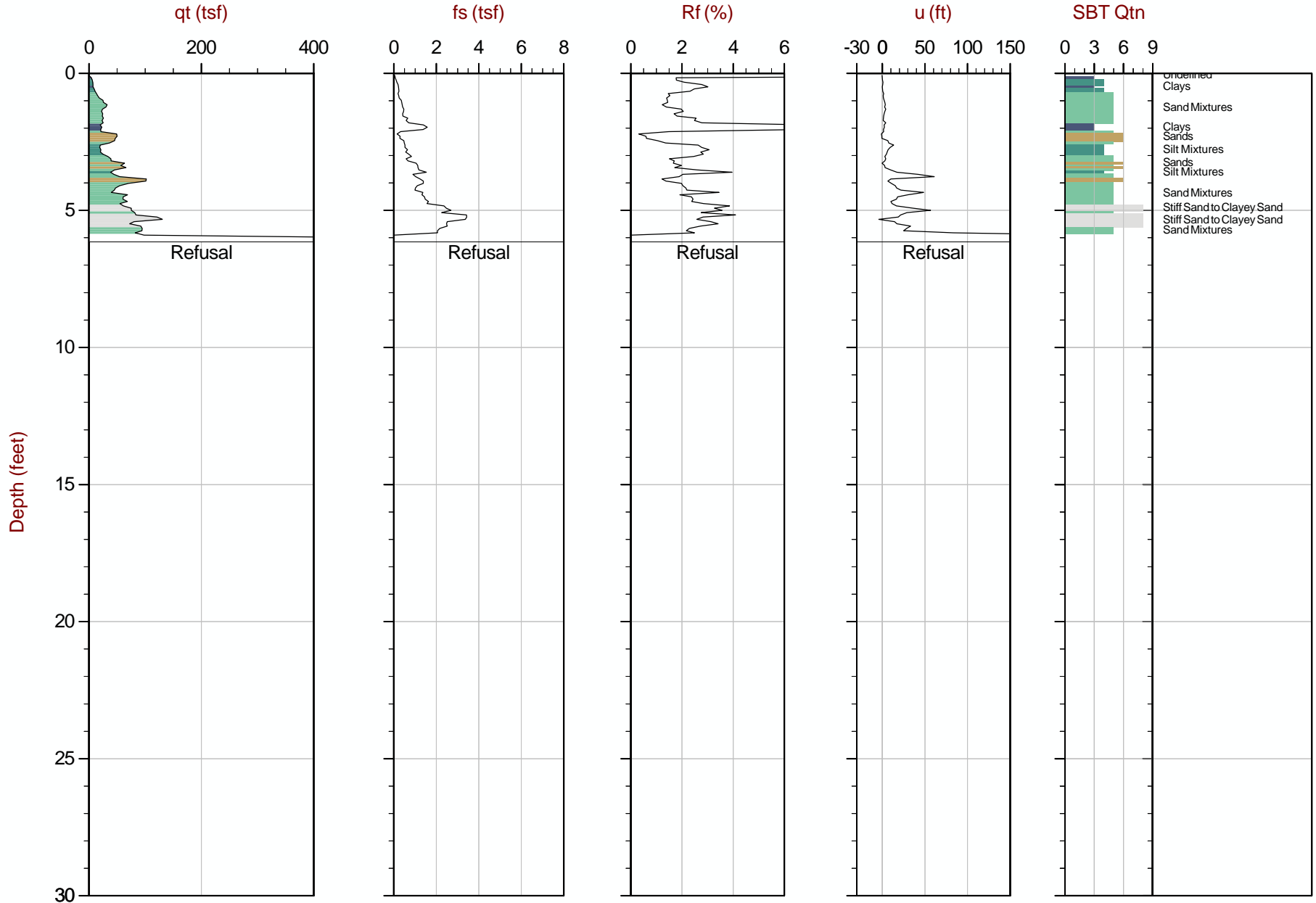
Job No: 23-53-26729

Date: 2023-10-23 11:10

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-075

Cone: 604:T1500F15U35



Max Depth: 1.875 m / 6.15 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-075.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782534m E: 405362m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

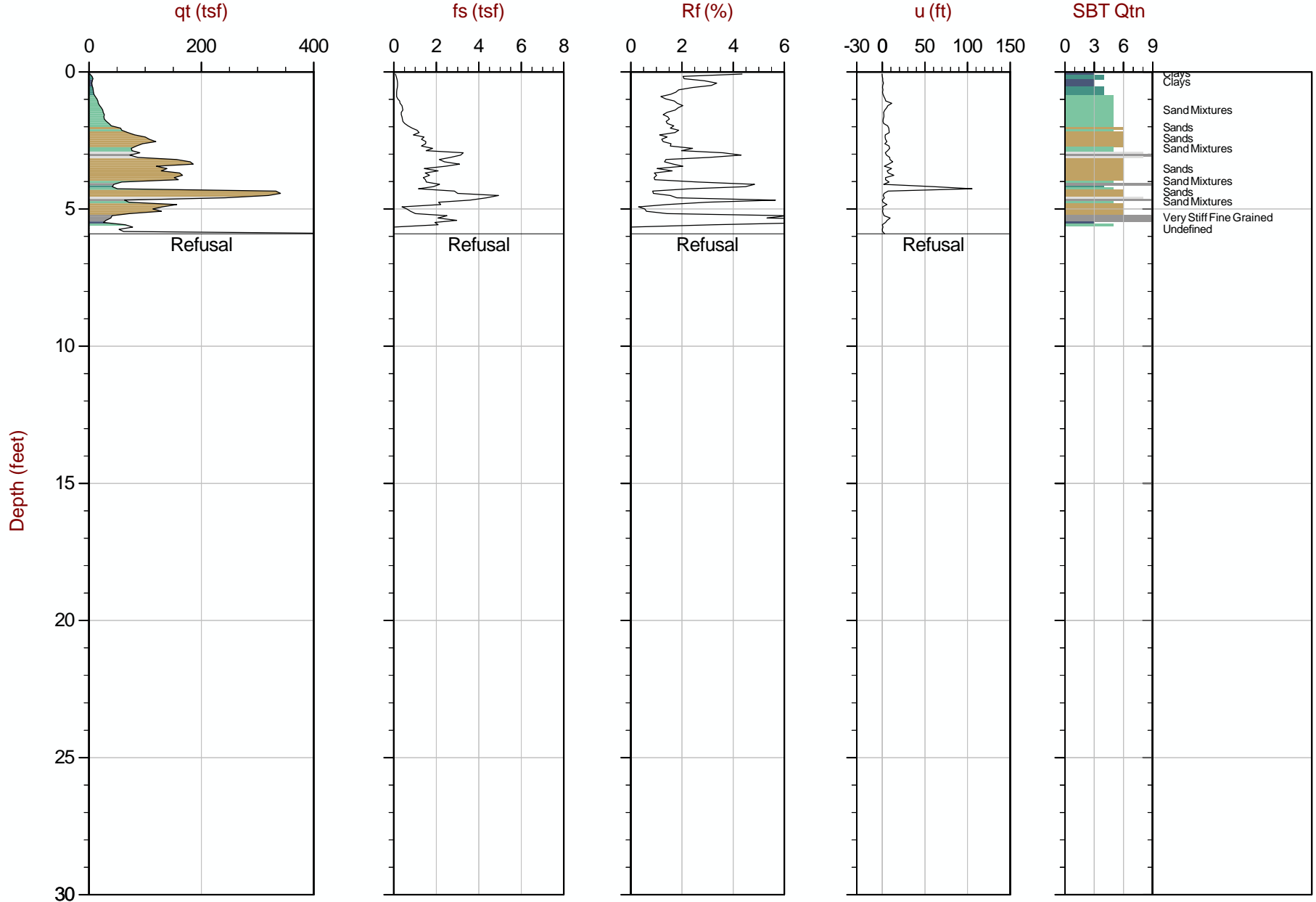
Job No: 23-53-26729

Date: 2023-10-23 11:37

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-076

Cone: 604:T1500F15U35



Max Depth: 1.800 m / 5.91 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-076.COR  
Unit Wt: SBTQtn(PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782537m E: 405311m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

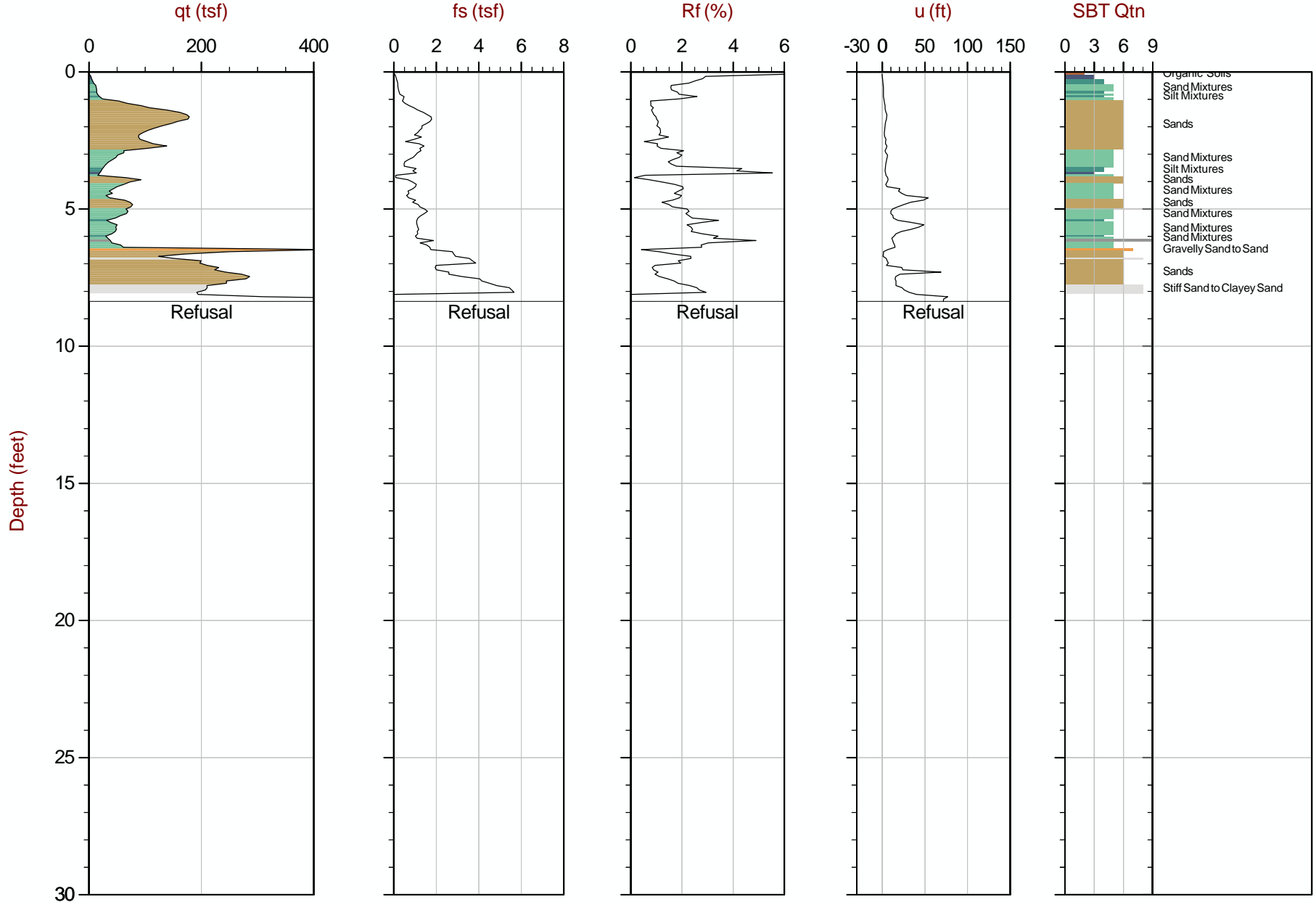
Job No: 23-53-26729

Date: 2023-10-23 12:06

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-077

Cone: 604:T1500F15U35



Max Depth: 2.550 m / 8.37 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-077.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782533m E: 405264m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

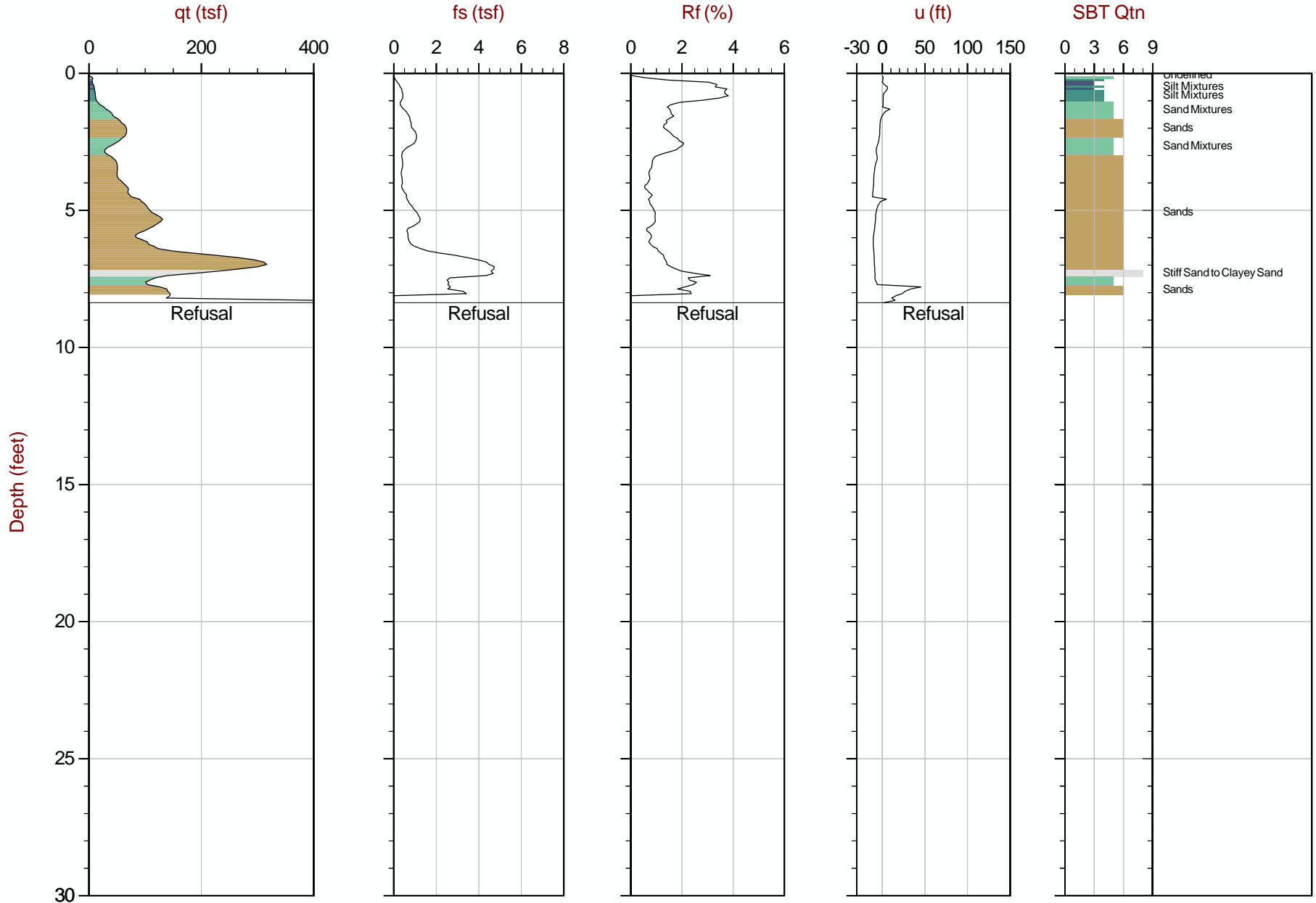
Job No: 23-53-26729

Date: 2023-10-25 07:29

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-078

Cone: 604:T1500F15U35



Max Depth: 2.550 m / 8.37 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-078.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782533m E: 405733m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

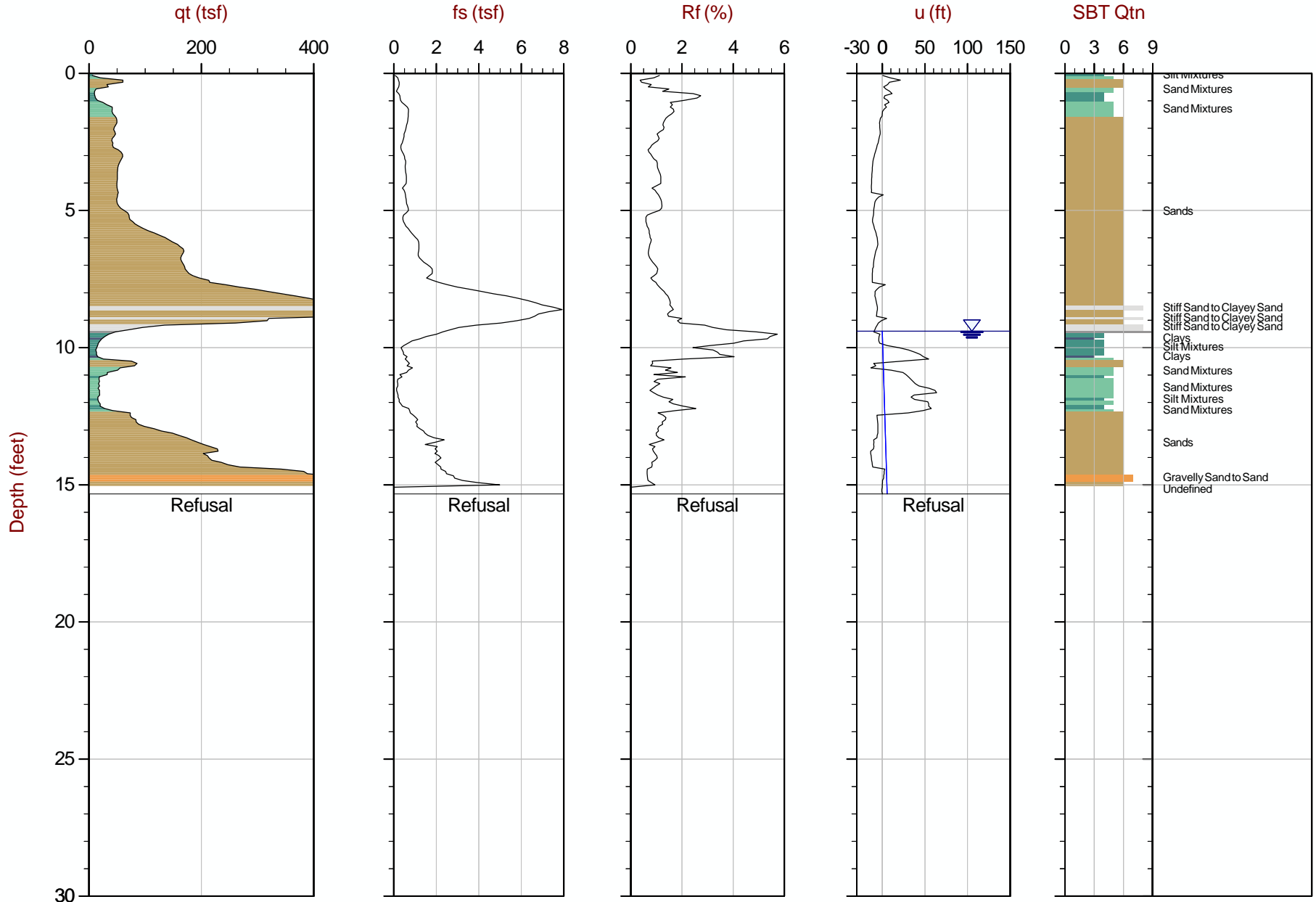
Job No: 23-53-26729

Date: 2023-10-24 14:26

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-080

Cone: 604:T1500F15U35



Max Depth: 4.675 m / 15.34 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-080.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782485m E: 405681m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

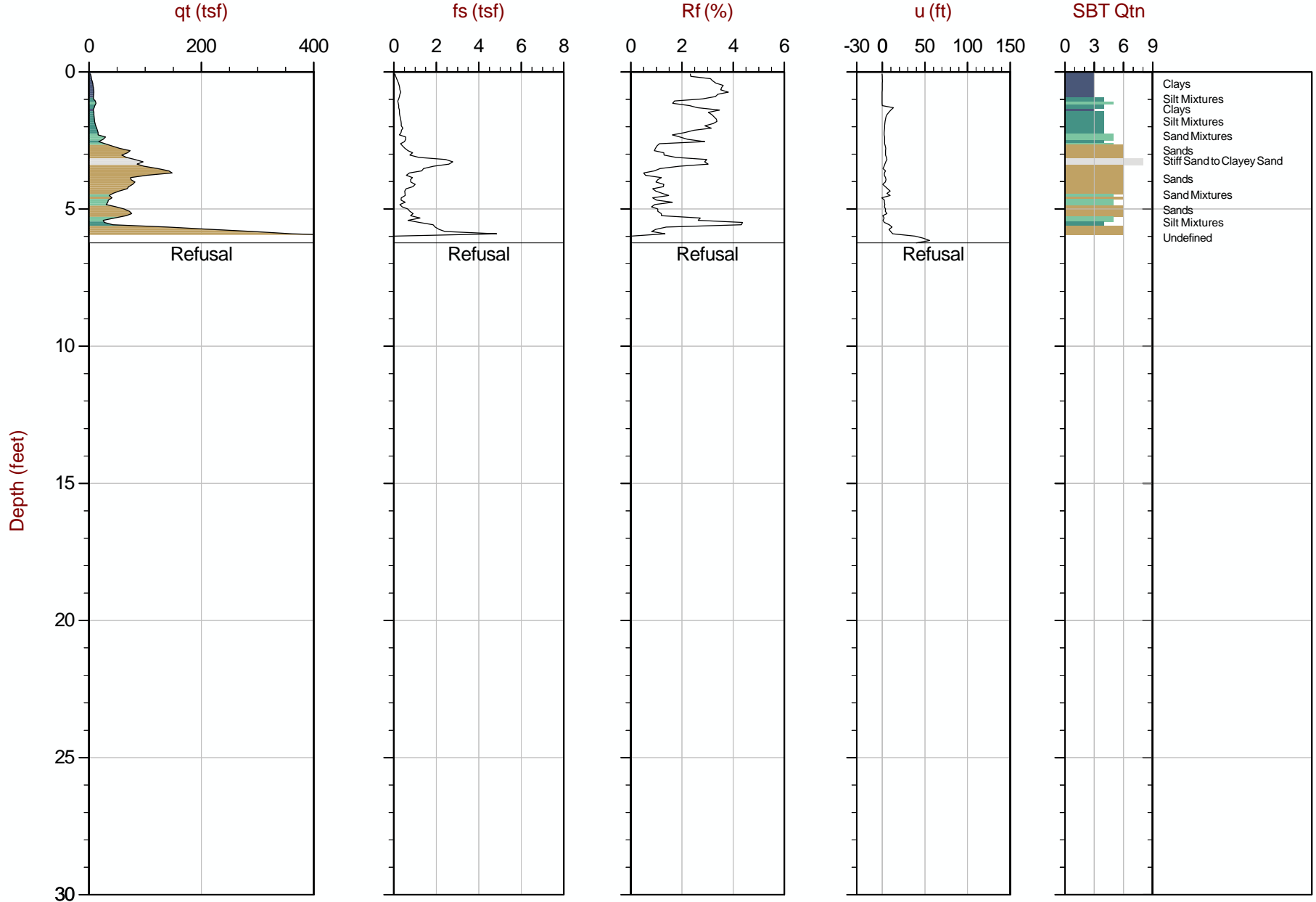
Job No: 23-53-26729

Date: 2023-10-23 13:38

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-084

Cone: 604:T1500F15U35



Max Depth: 1.900 m / 6.23 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-084.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782502m E: 405427m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.





**CME Associates**

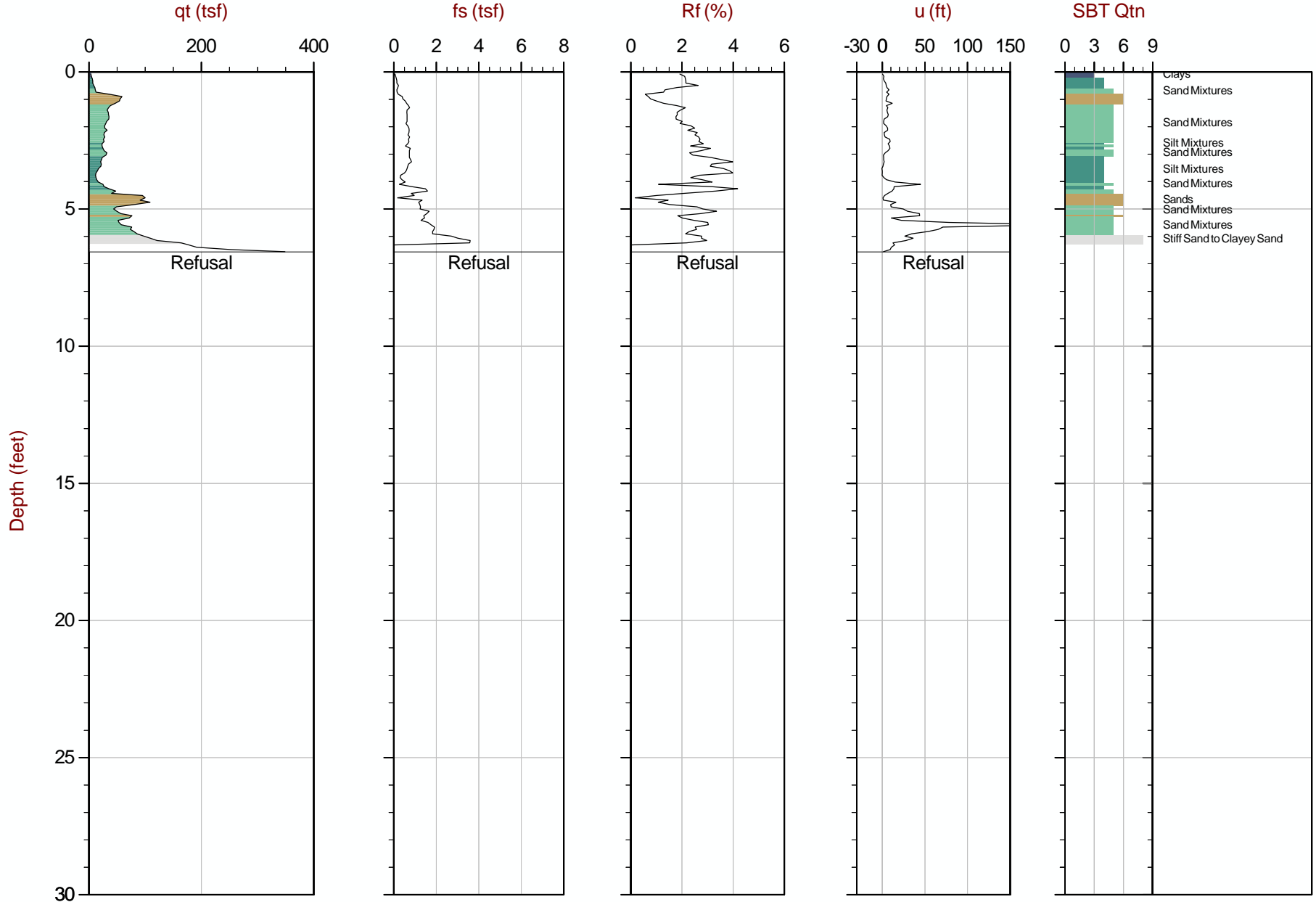
Job No: 23-53-26729

Date: 2023-10-23 12:54

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-086

Cone: 604:T1500F15U35



Max Depth: 2.000 m / 6.56 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-086.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782506m E: 405306m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

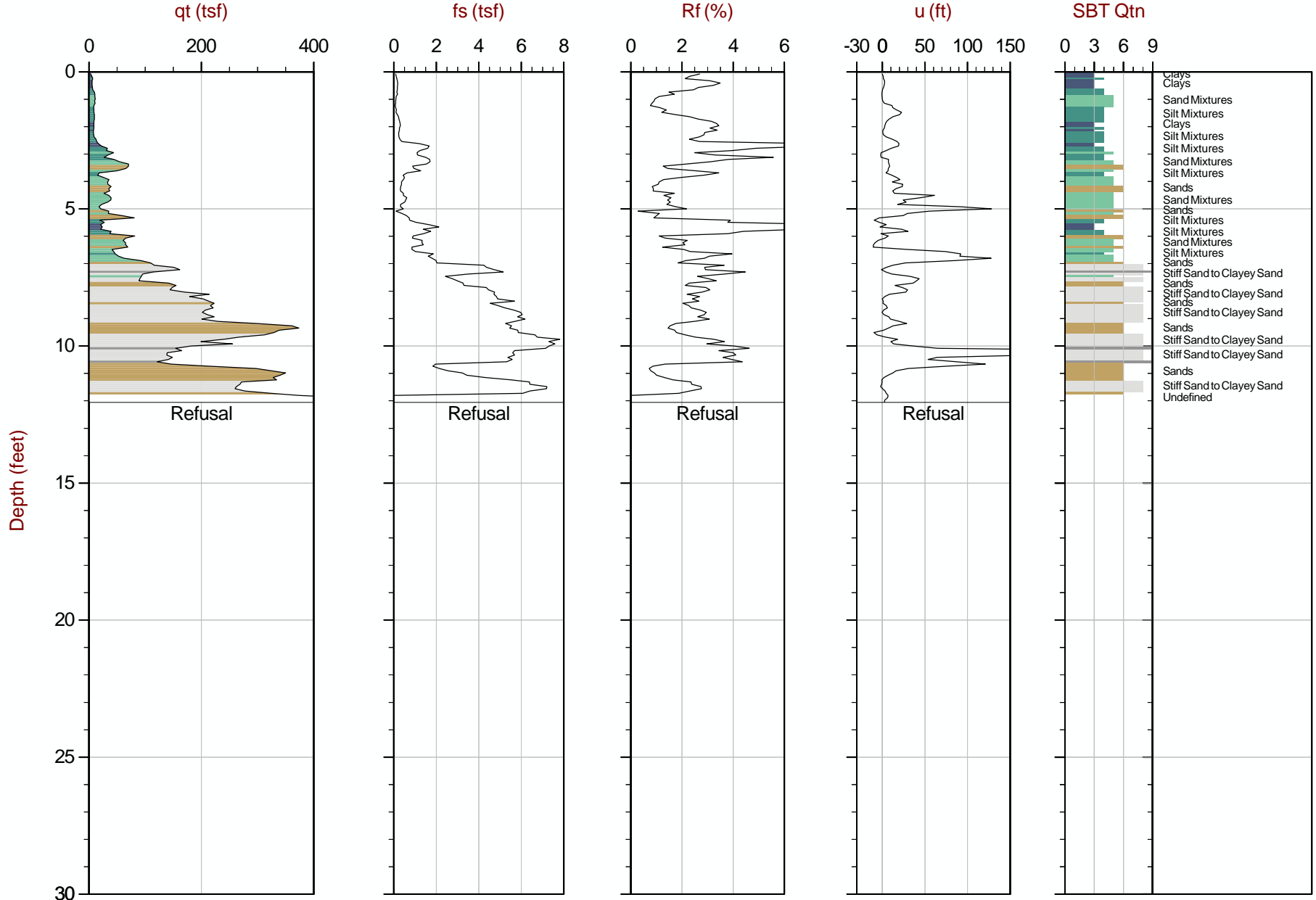
Job No: 23-53-26729

Date: 2023-10-23 14:25

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-092

Cone: 604:T1500F15U35



Max Depth: 3.675 m / 12.06 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-092.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782439m E: 405546m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

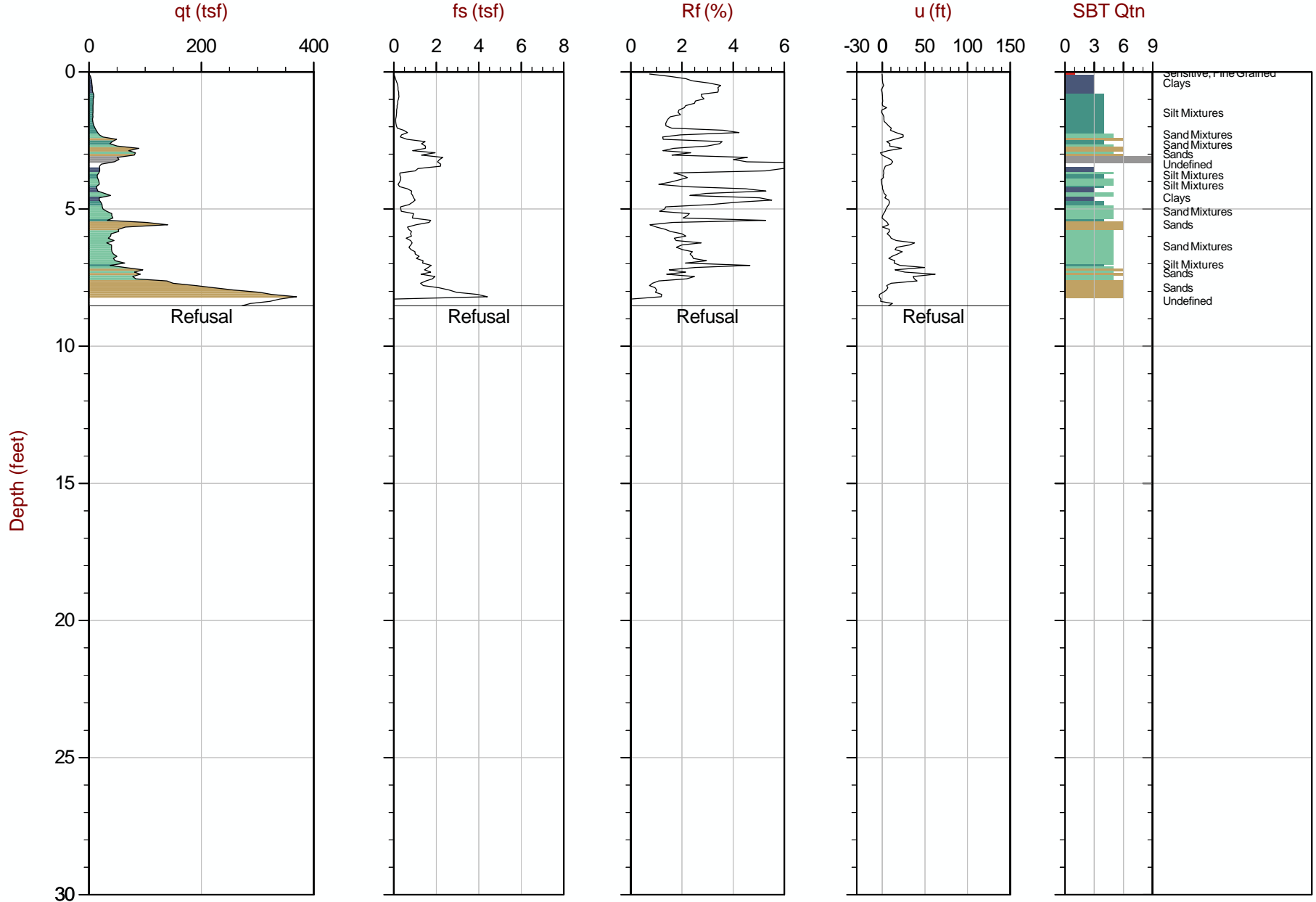
Job No: 23-53-26729

Date: 2023-10-23 14:11

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-093

Cone: 604:T1500F15U35



Max Depth: 2.600 m / 8.53 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-093.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782440m E: 405488m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

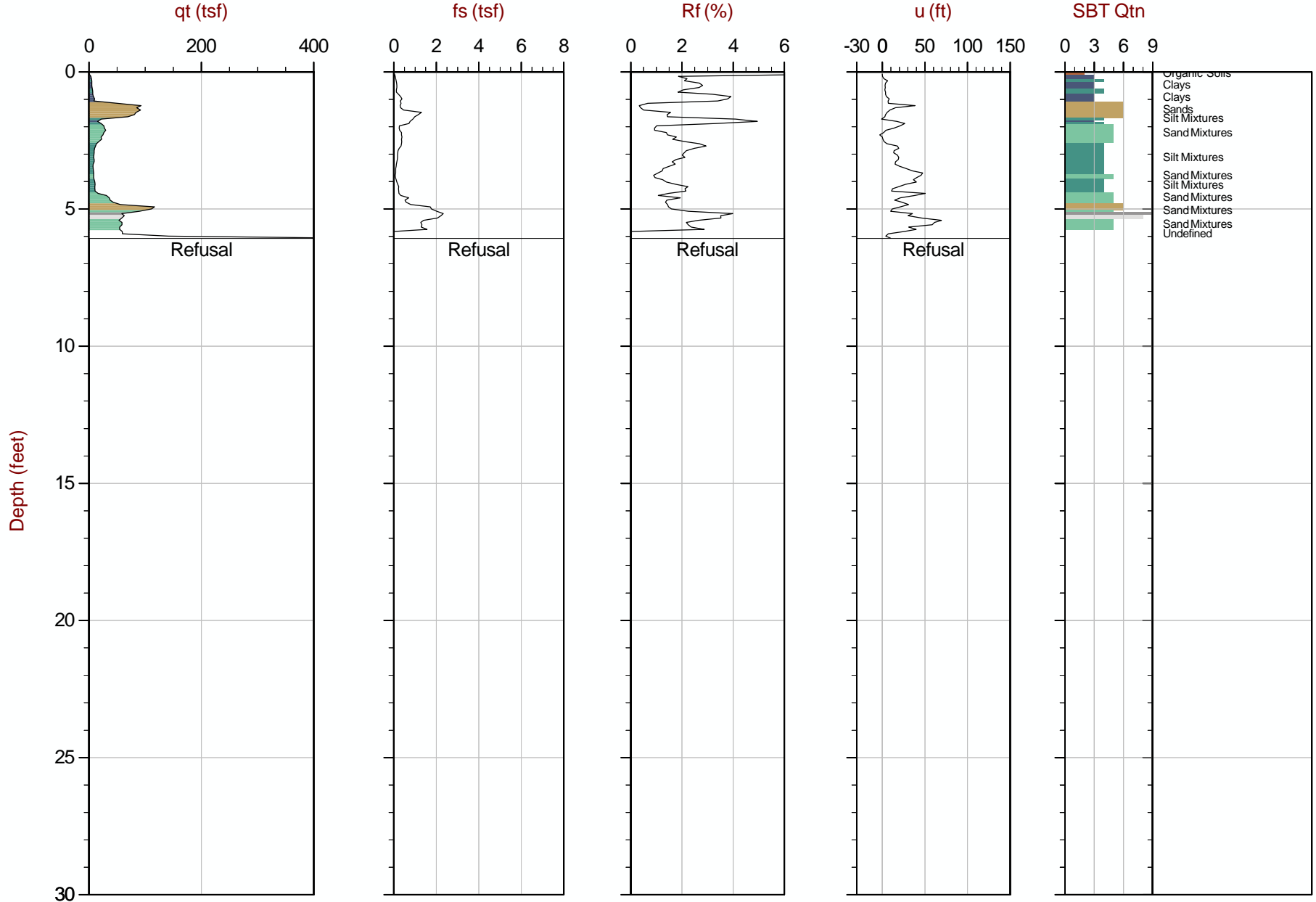
Job No: 23-53-26729

Date: 2023-10-24 07:28

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-095

Cone: 604:T1500F15U35



Max Depth: 1.850 m / 6.07 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-095.COR  
Unit Wt: SBTQtn(PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782440m E: 405366m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

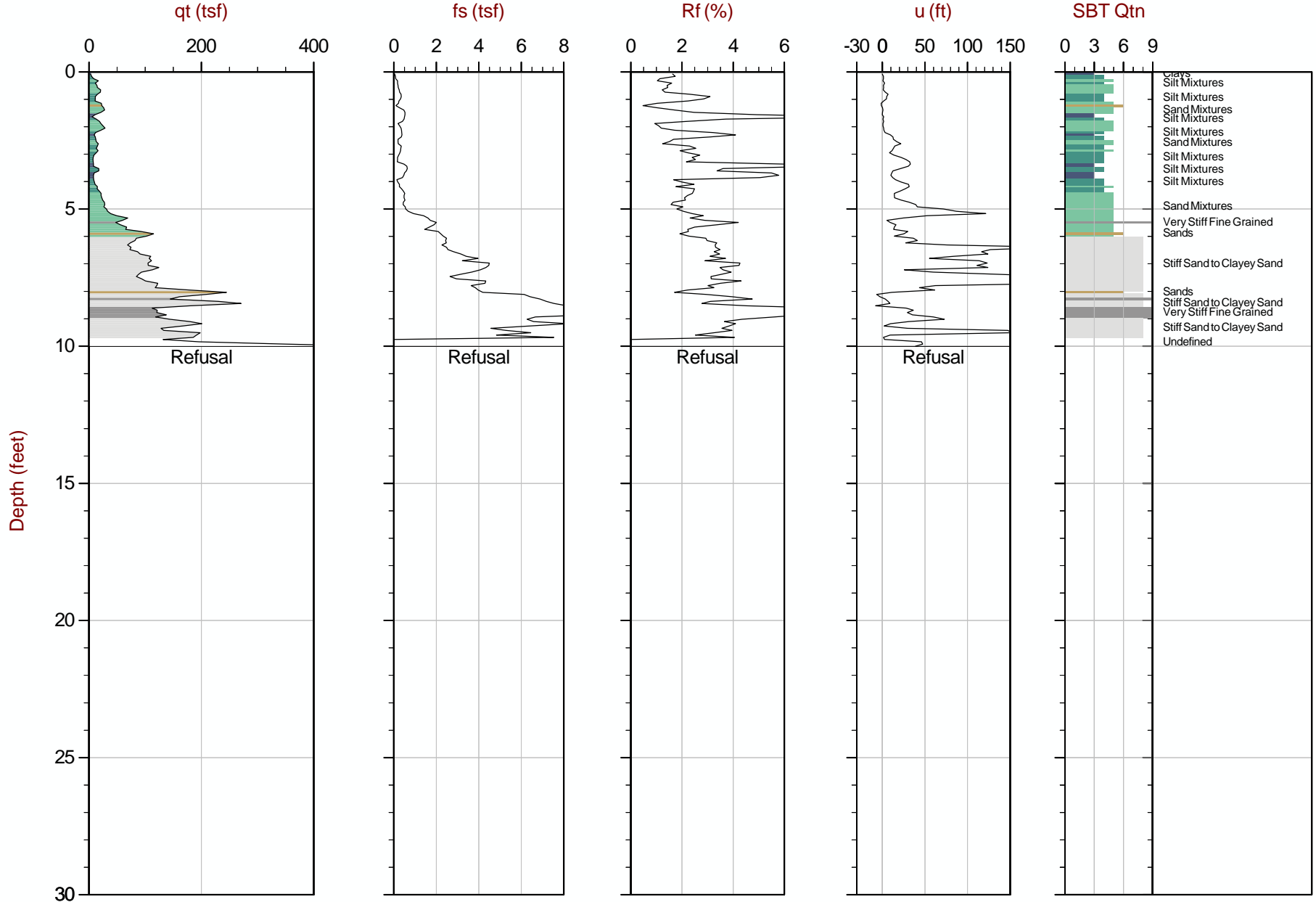
Job No: 23-53-26729

Date: 2023-10-23 12:45

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-097

Cone: 604:T1500F15U35



Max Depth: 3.050 m / 10.01 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-097.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782444m E: 405240m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

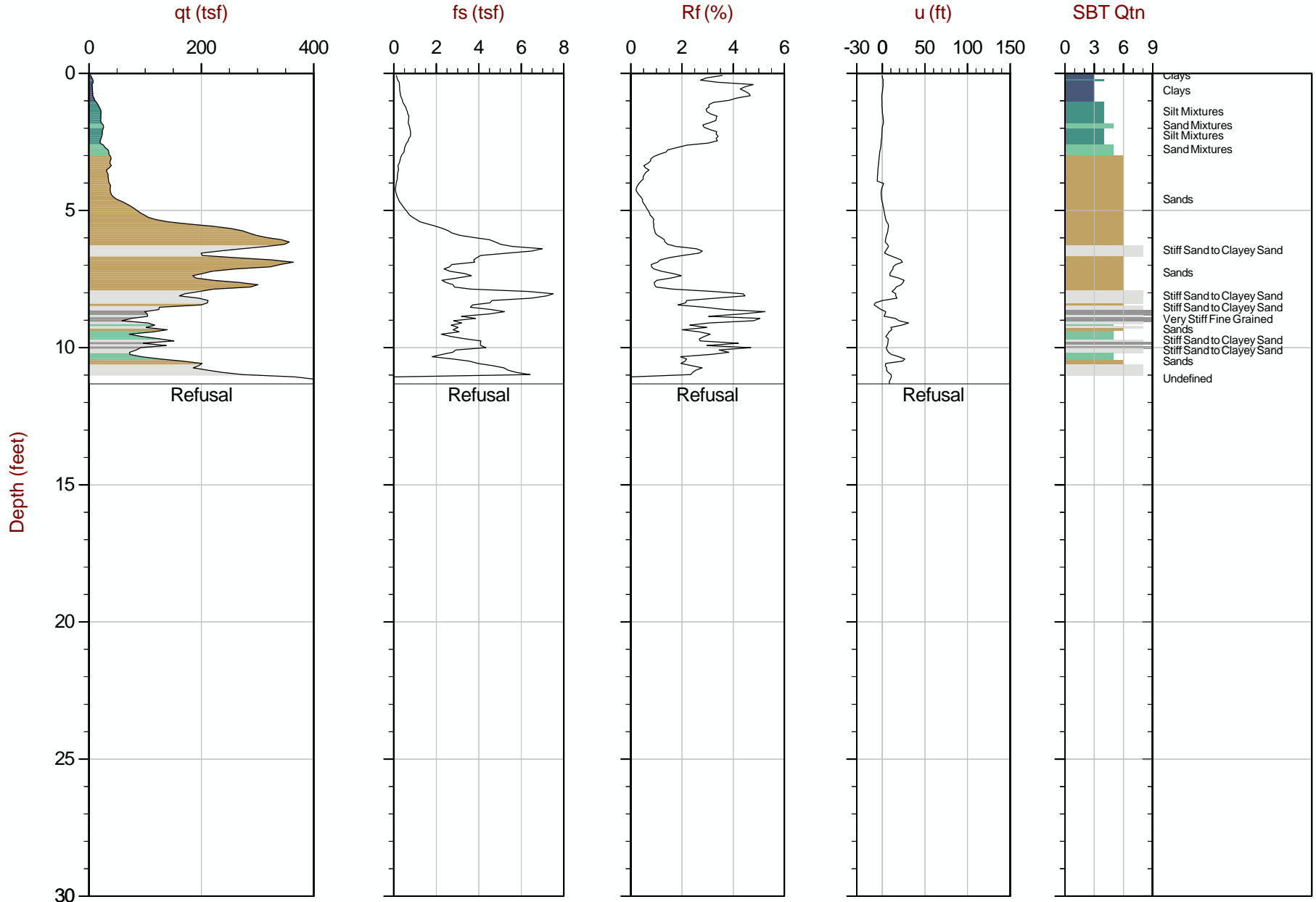
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 08:00  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-098  
Cone: 604:T1500F15U35



Max Depth: 3.450 m / 11.32 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-098.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782436m E: 405738m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

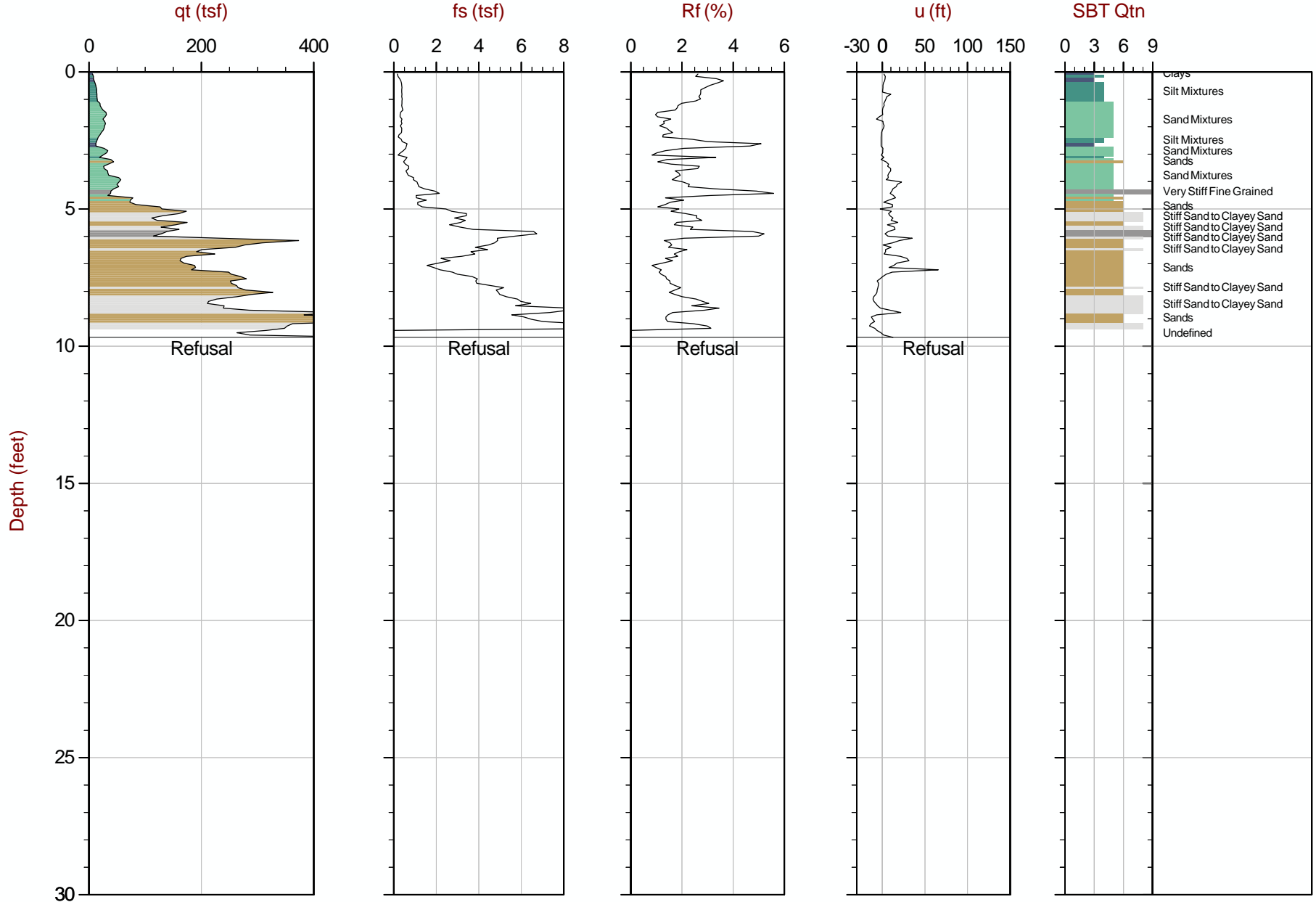
Job No: 23-53-26729

Date: 2023-10-24 11:28

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-102

Cone: 604:T1500F15U35



Max Depth: 2.950 m / 9.68 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-102.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782407m E: 405552m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

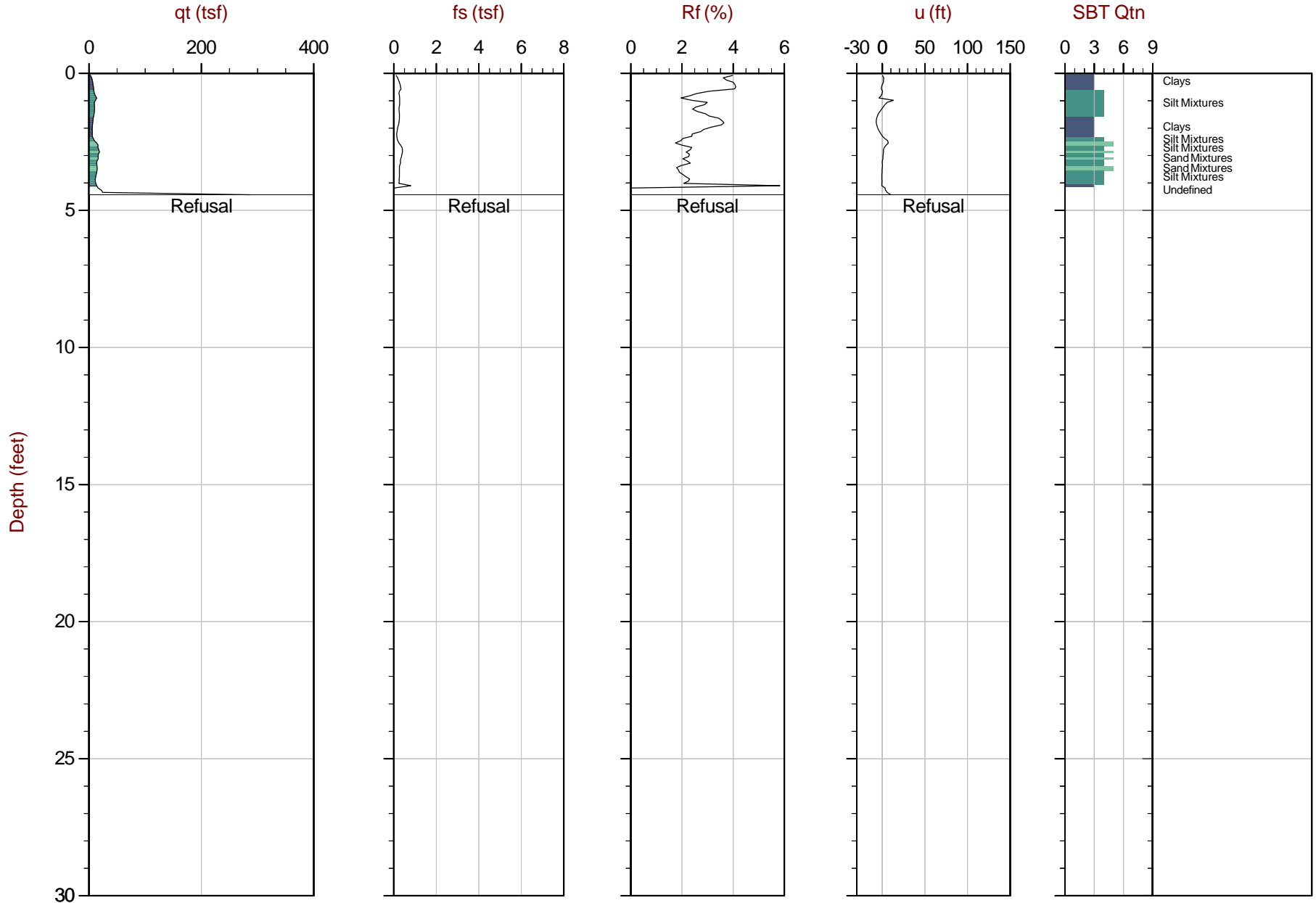
Job No: 23-53-26729

Date: 2023-10-24 12:09

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-104

Cone: 604:T1500F15U35



Max Depth: 1.350 m / 4.43 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-104.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782390m E: 405424m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.





**CME Associates**

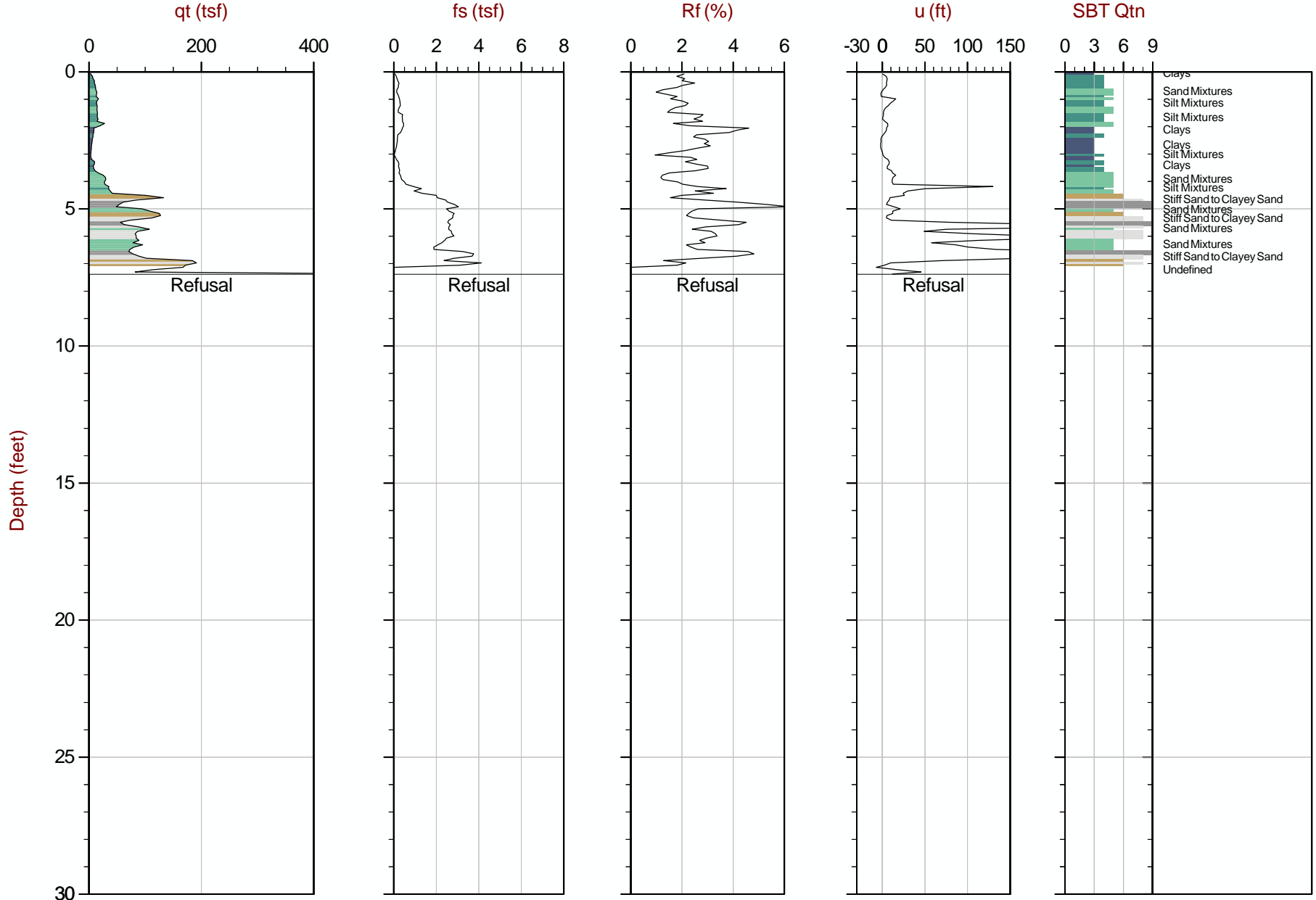
Job No: 23-53-26729

Date: 2023-10-24 08:37

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-106

Cone: 604:T1500F15U35



Max Depth: 2.250 m / 7.38 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-106.COR  
Unit Wt: SBTQtn(PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782406m E: 405306m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

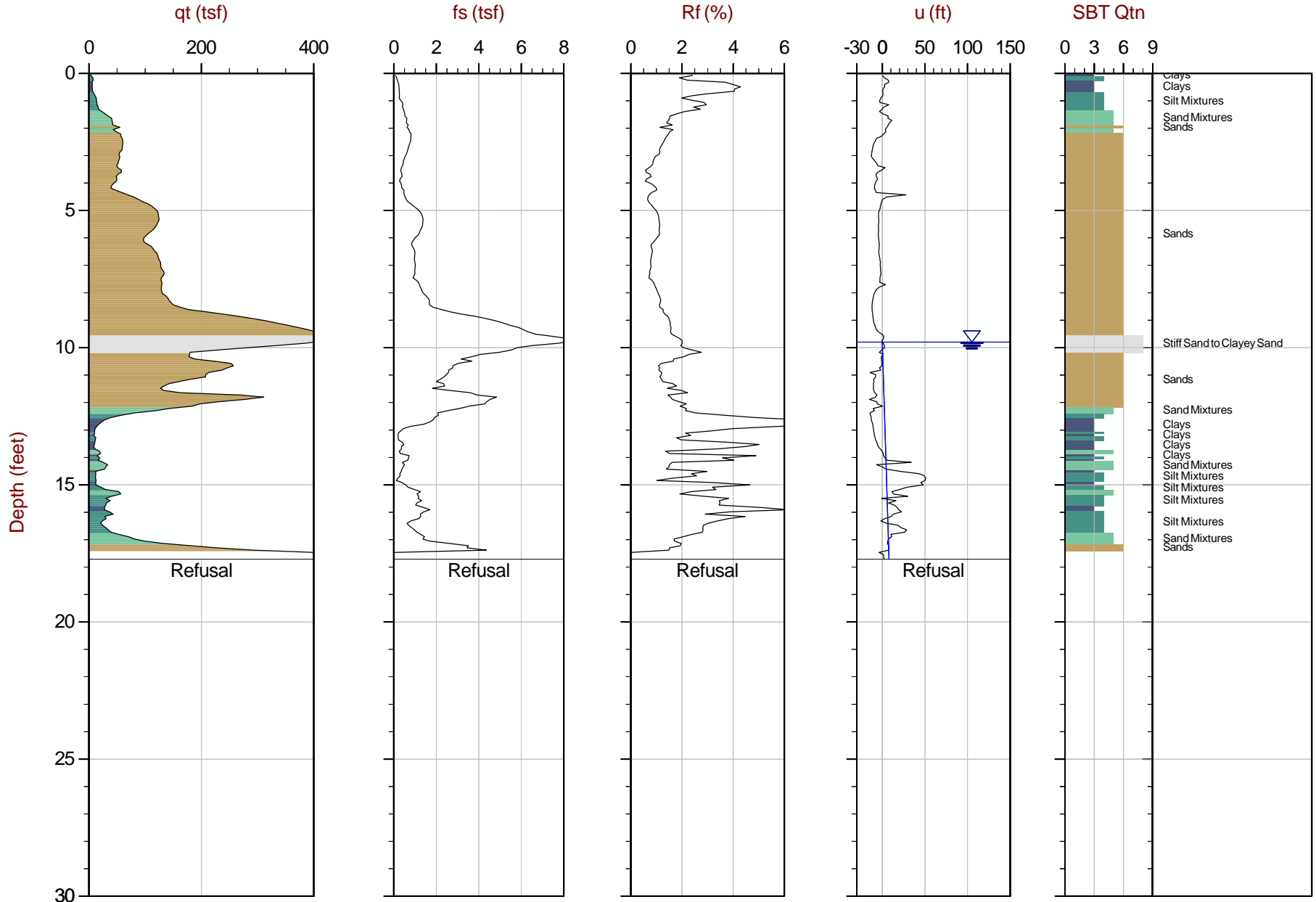
Job No: 23-53-26729

Date: 2023-10-25 08:35

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-107

Cone: 604:T1500F15U35



Max Depth: 5.400 m / 17.72 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-107.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782397m E: 405742m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

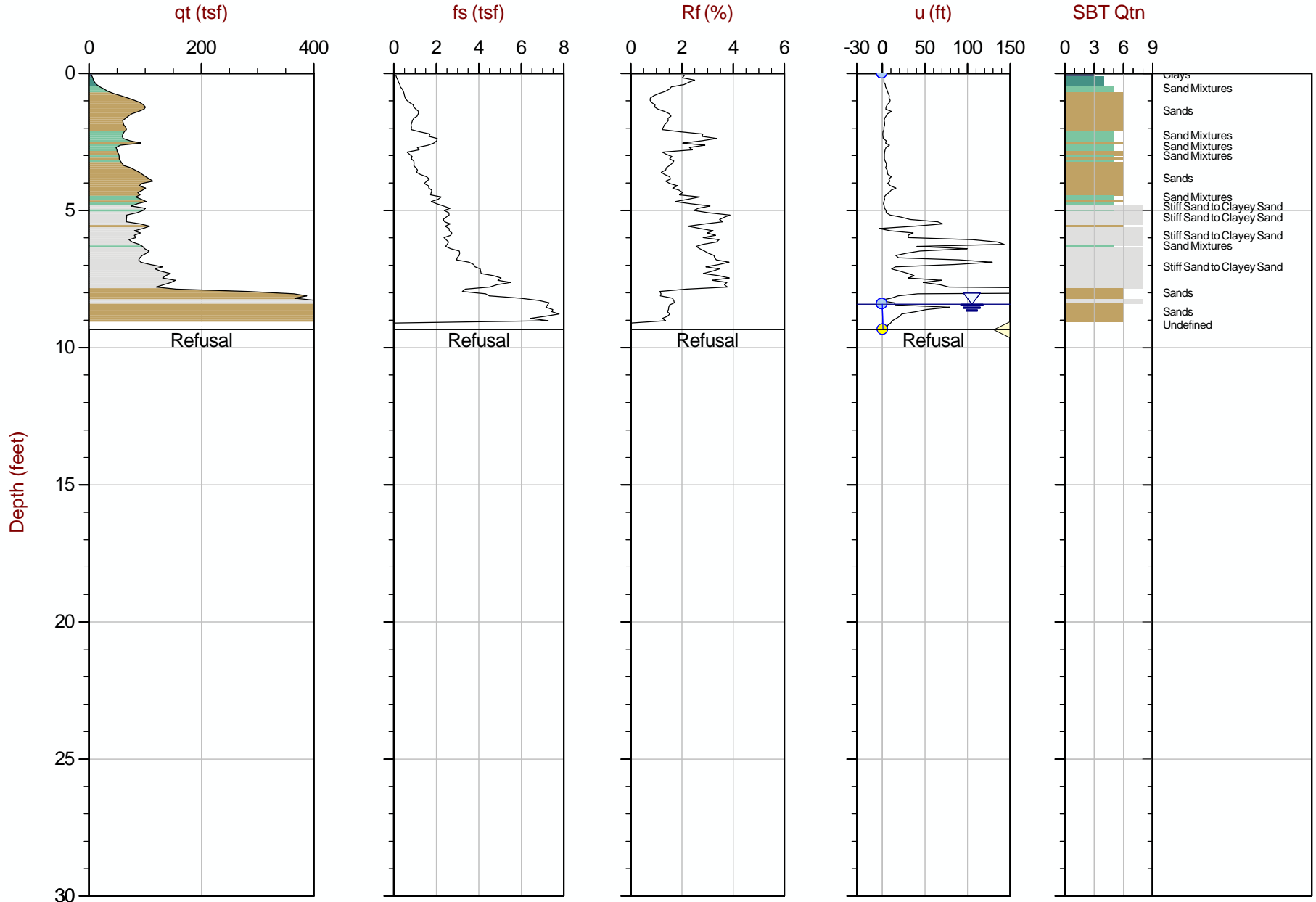
Job No: 23-53-26729

Date: 2023-10-24 10:50

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-112

Cone: 604:T1500F15U35



Max Depth: 2.850 m / 9.35 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-112.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782363m E: 405534m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

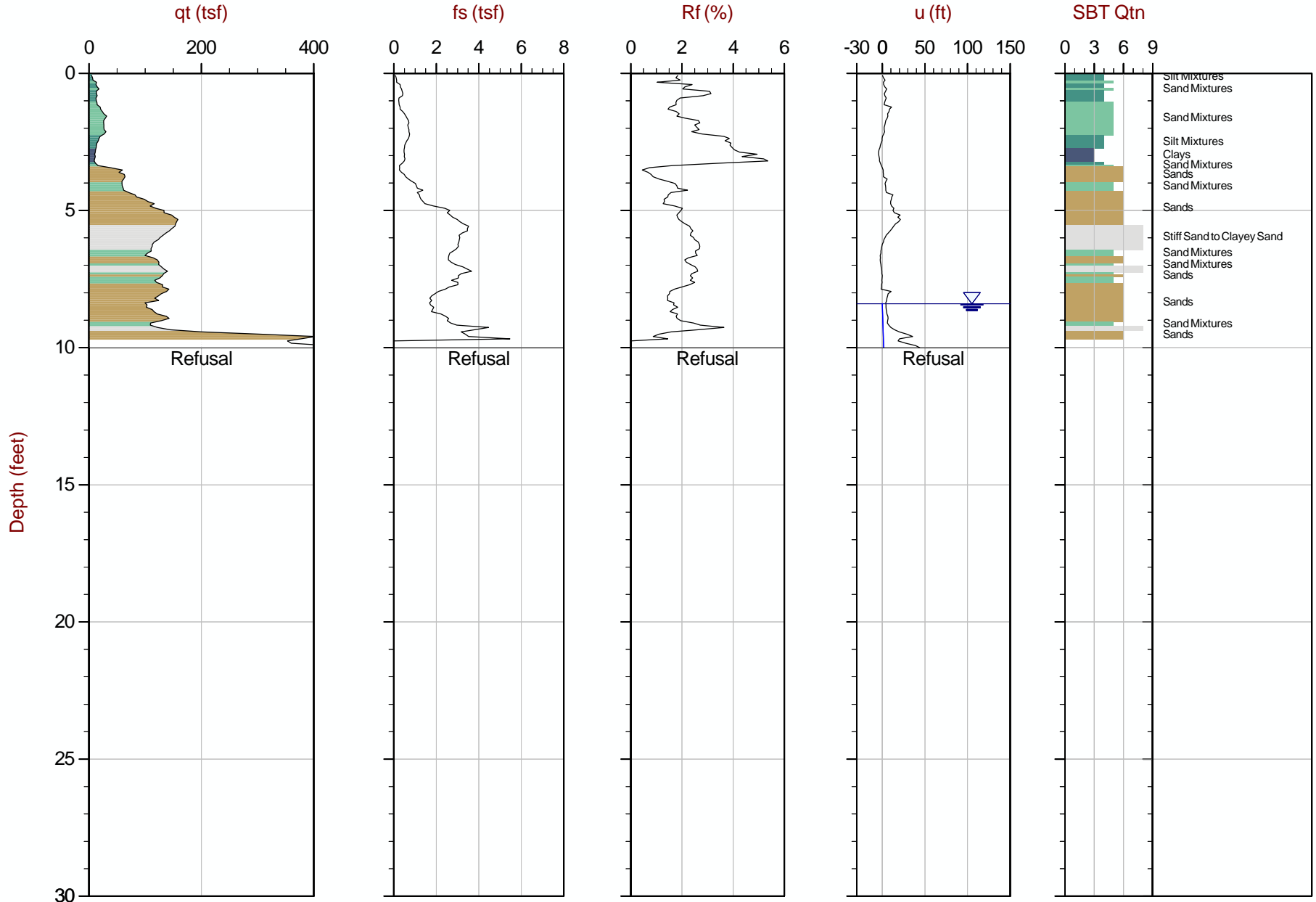
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 09:36  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-113  
Cone: 604:T1500F15U35



Max Depth: 3.050 m / 10.01 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-113.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782359m E: 405498m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

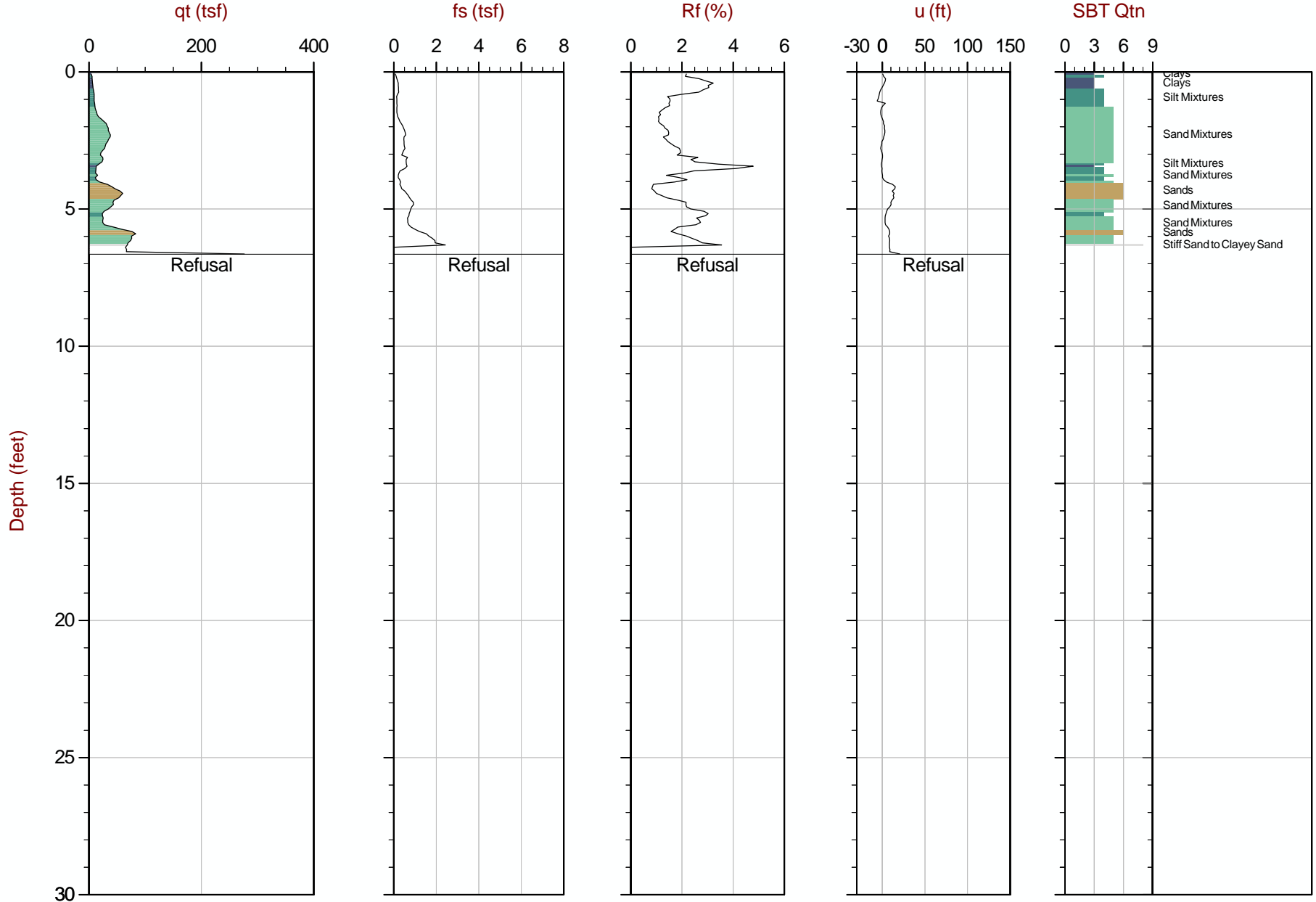
Job No: 23-53-26729

Date: 2023-10-24 09:03

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-115

Cone: 604:T1500F15U35



Max Depth: 2.025 m / 6.64 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-115.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782356m E: 405372m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

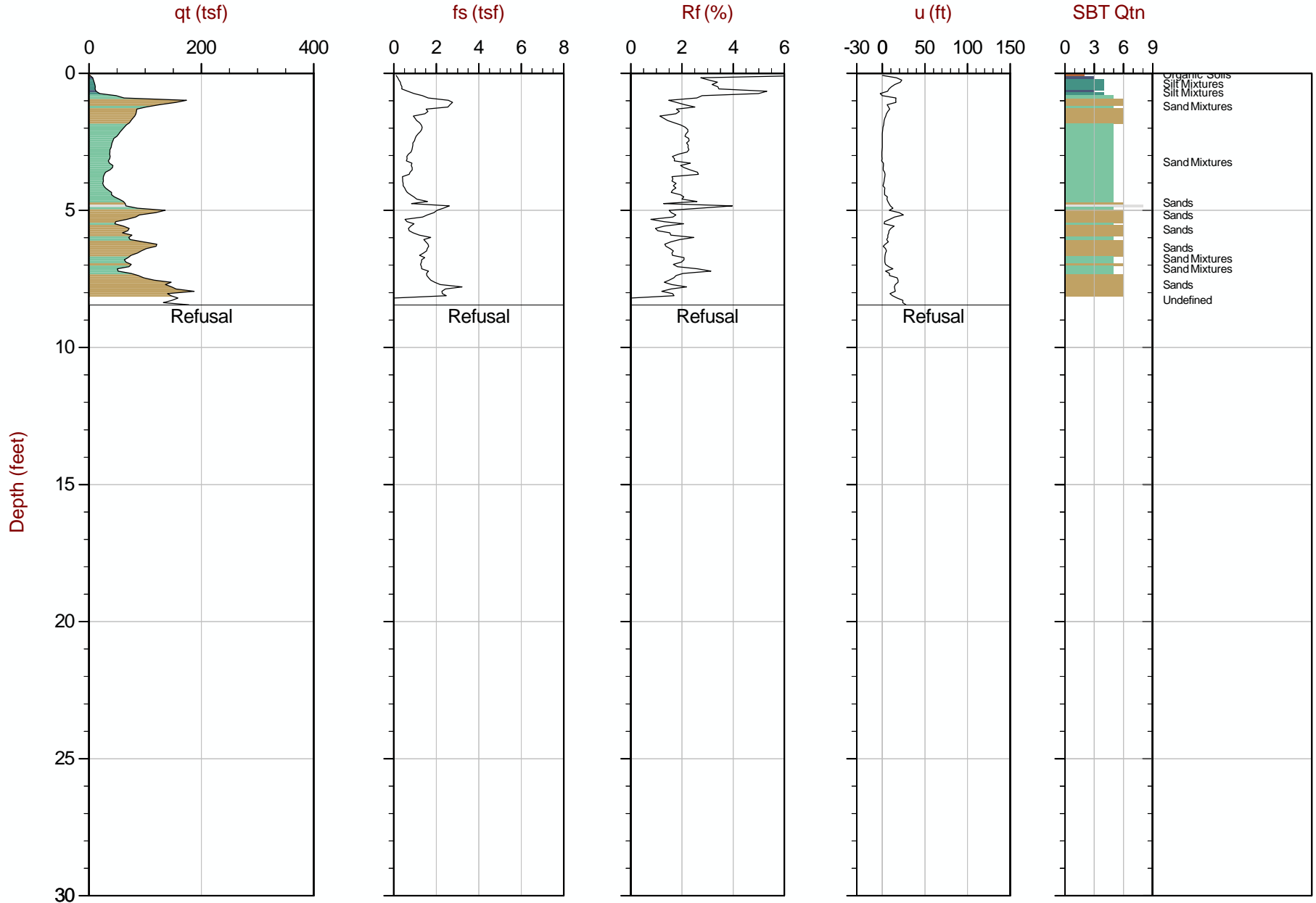
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 10:14  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-120  
Cone: 604:T1500F15U35



Max Depth: 2.575 m / 8.45 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-120.COR  
Unit Wt: SBTQtn(PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782336m E: 405417m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

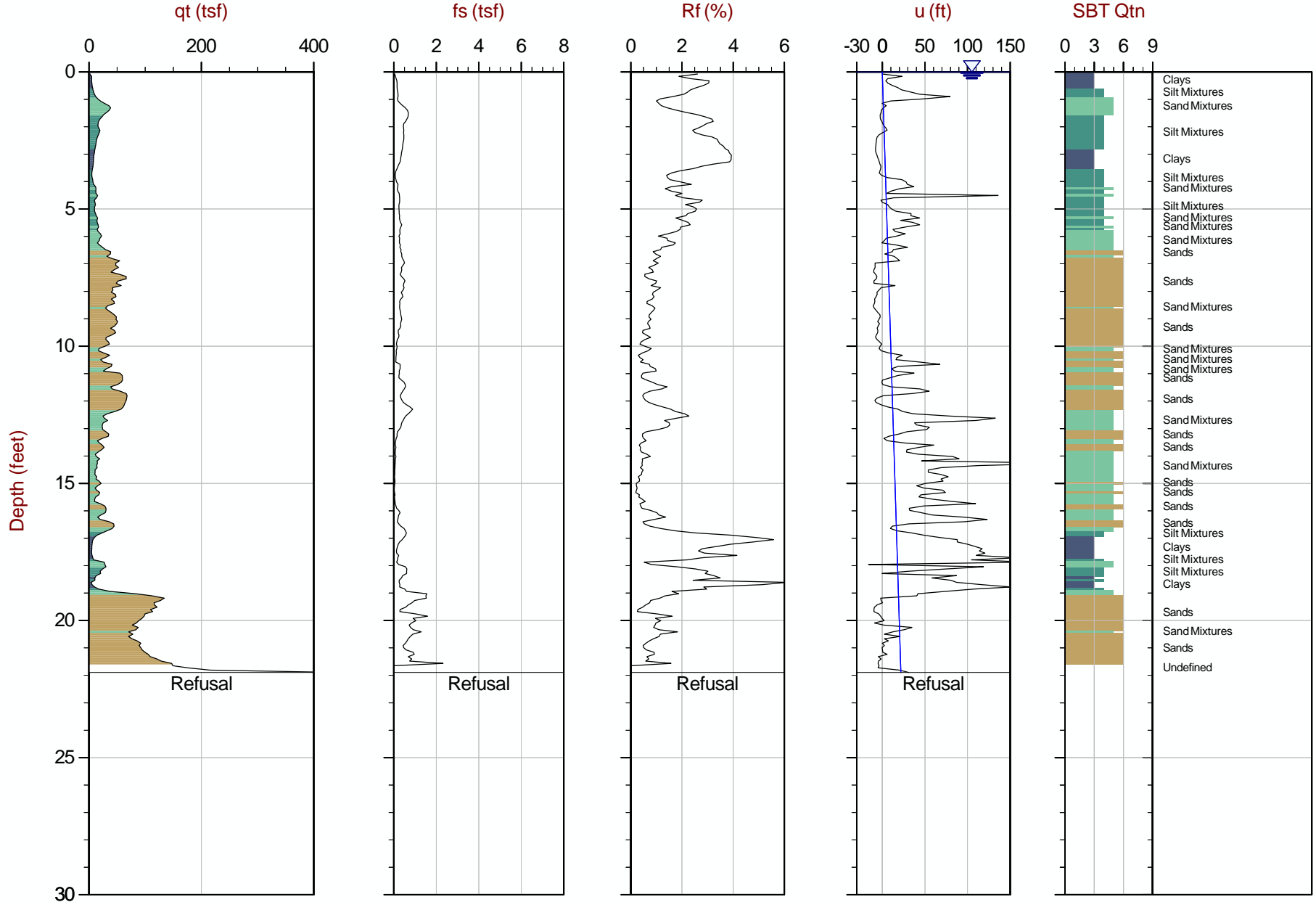
Job No: 23-53-26729

Date: 2023-10-27 14:56

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-208

Cone: 606:T1500F15U35



Max Depth: 6.675 m / 21.90 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-208.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782904m E: 406684m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◁ PPD, Ueq achieved   ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

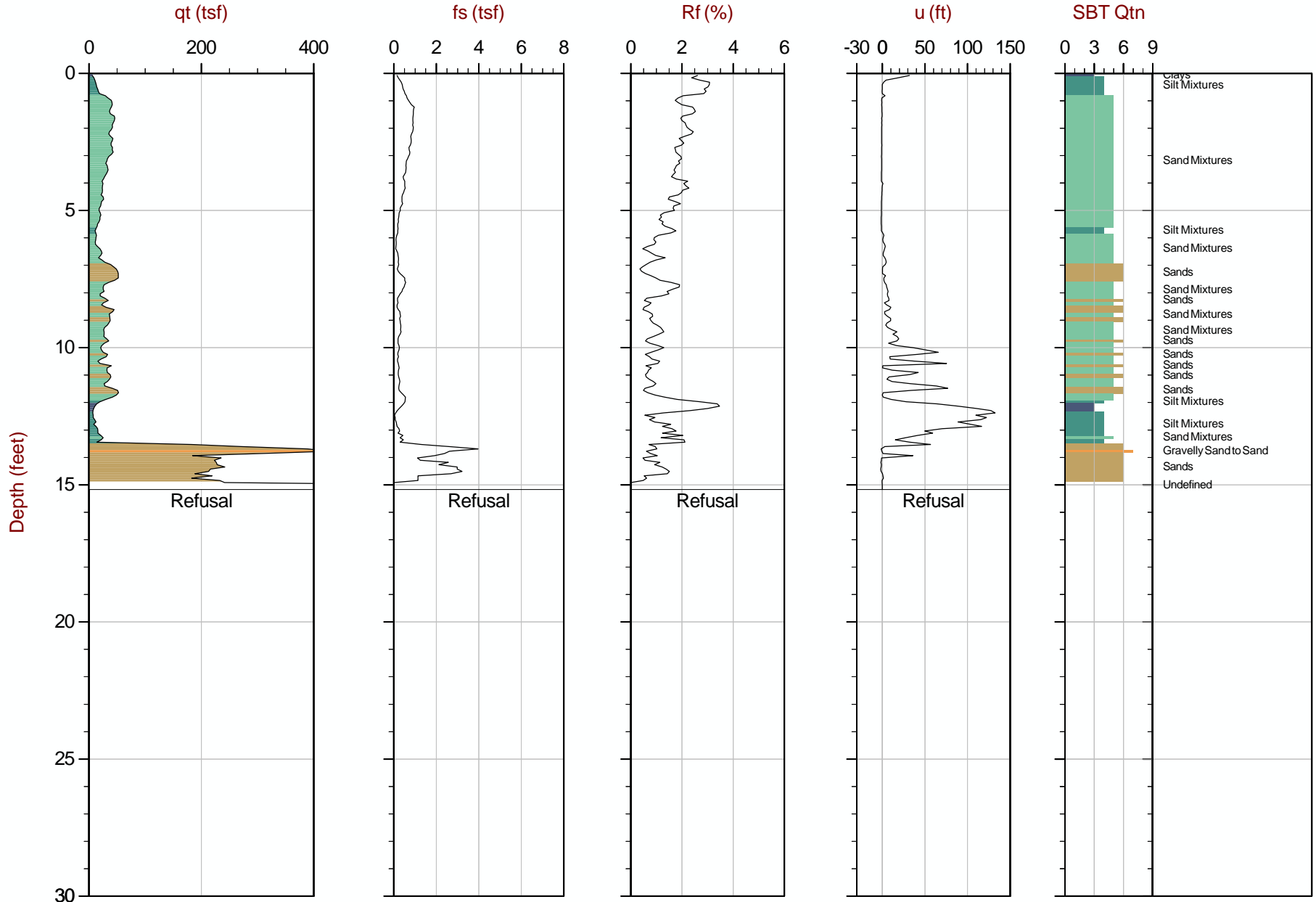
Job No: 23-53-26729

Date: 2023-10-27 10:44

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-221

Cone: 606:T1500F15U35



Max Depth: 4.625 m / 15.17 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-221.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783038m E: 406405m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.





**CME Associates**

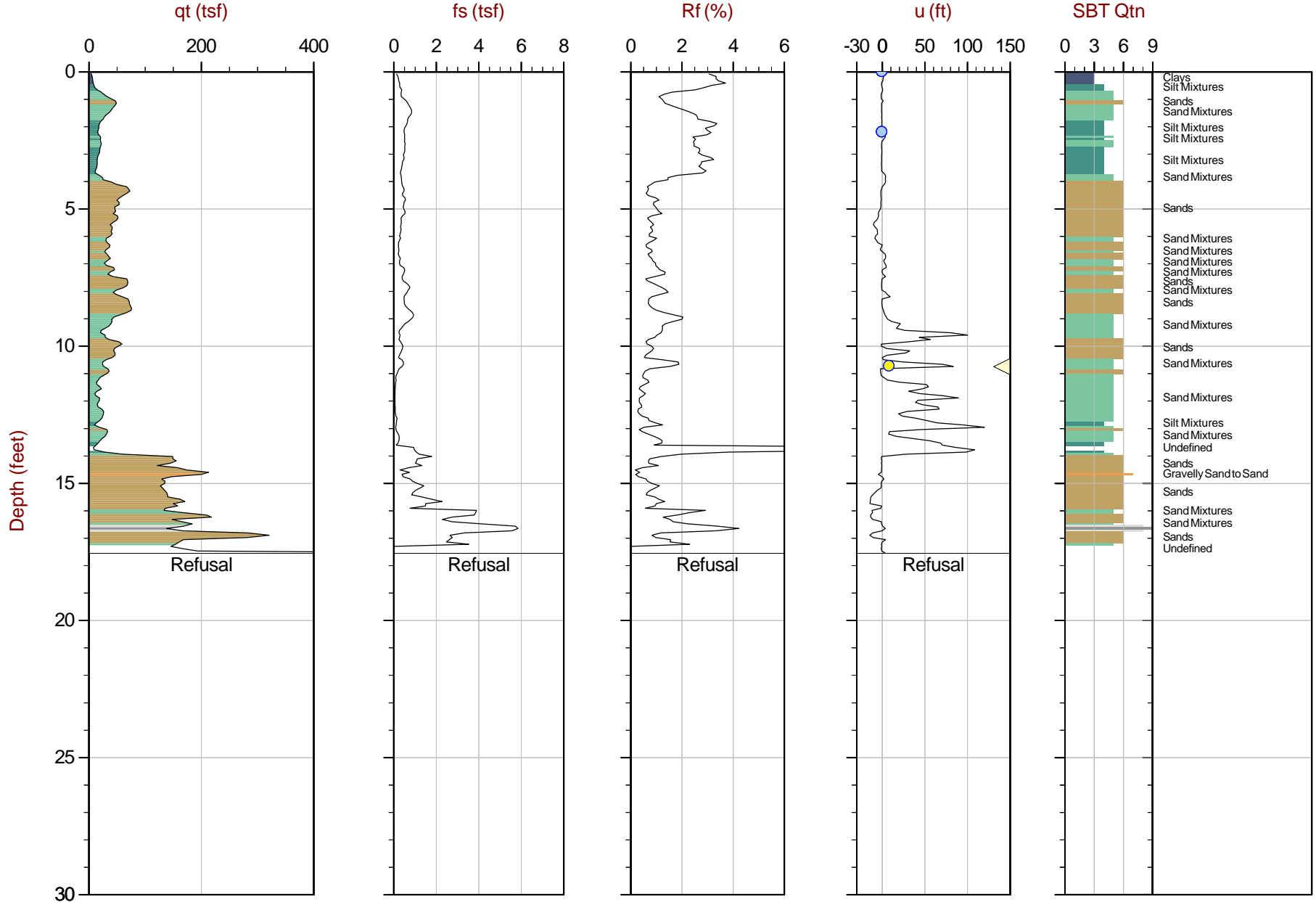
Job No: 23-53-26729

Date: 2023-10-27 11:16

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-222

Cone: 606:T1500F15U35



Max Depth: 5.350 m / 17.55 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-222.COR  
Unit Wt: SBTQtn(PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783002m E: 406458m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

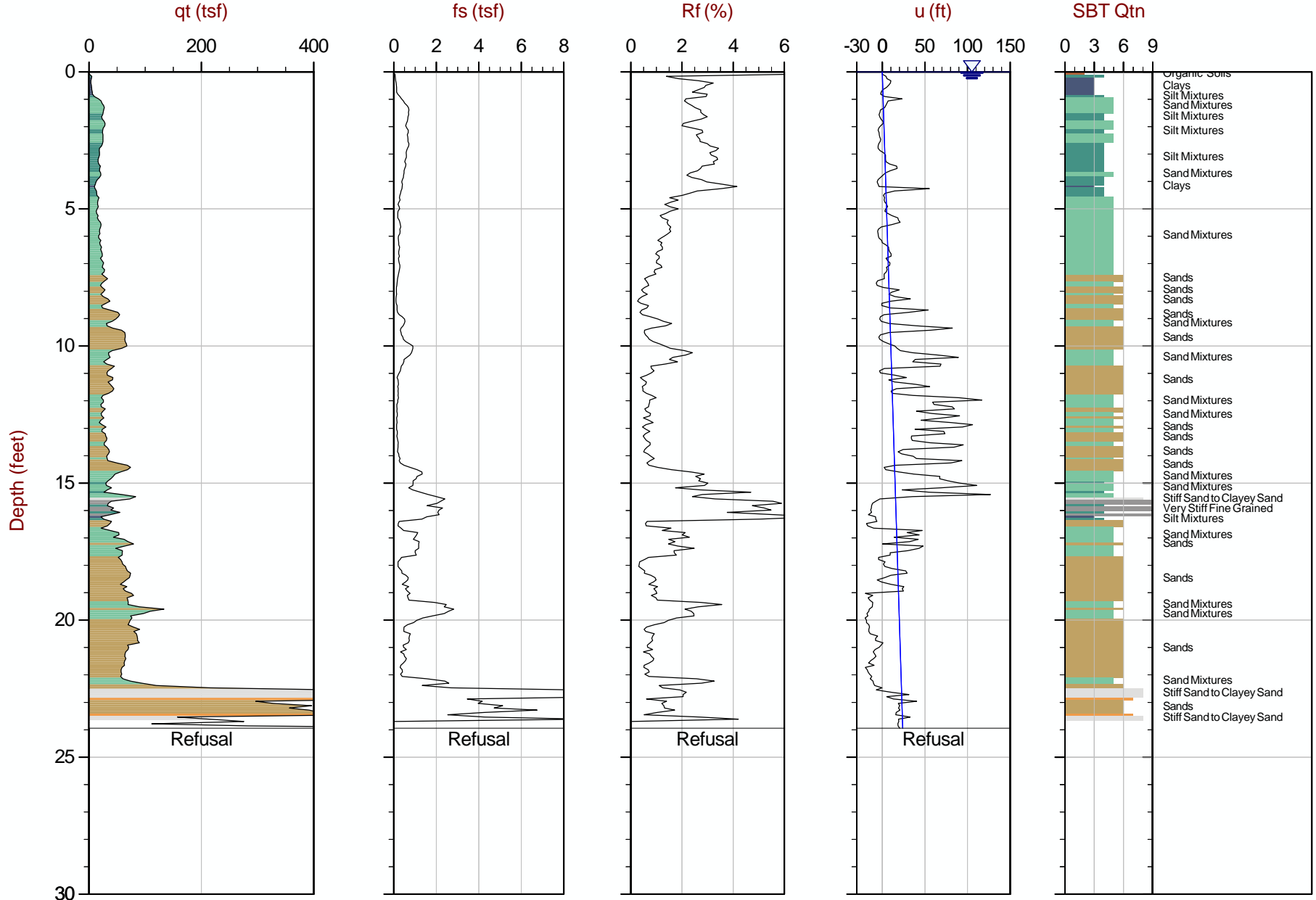
Job No: 23-53-26729

Date: 2023-10-27 14:26

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-225

Cone: 606:T1500F15U35



Max Depth: 7.300 m / 23.95 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-225.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782889m E: 406600m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

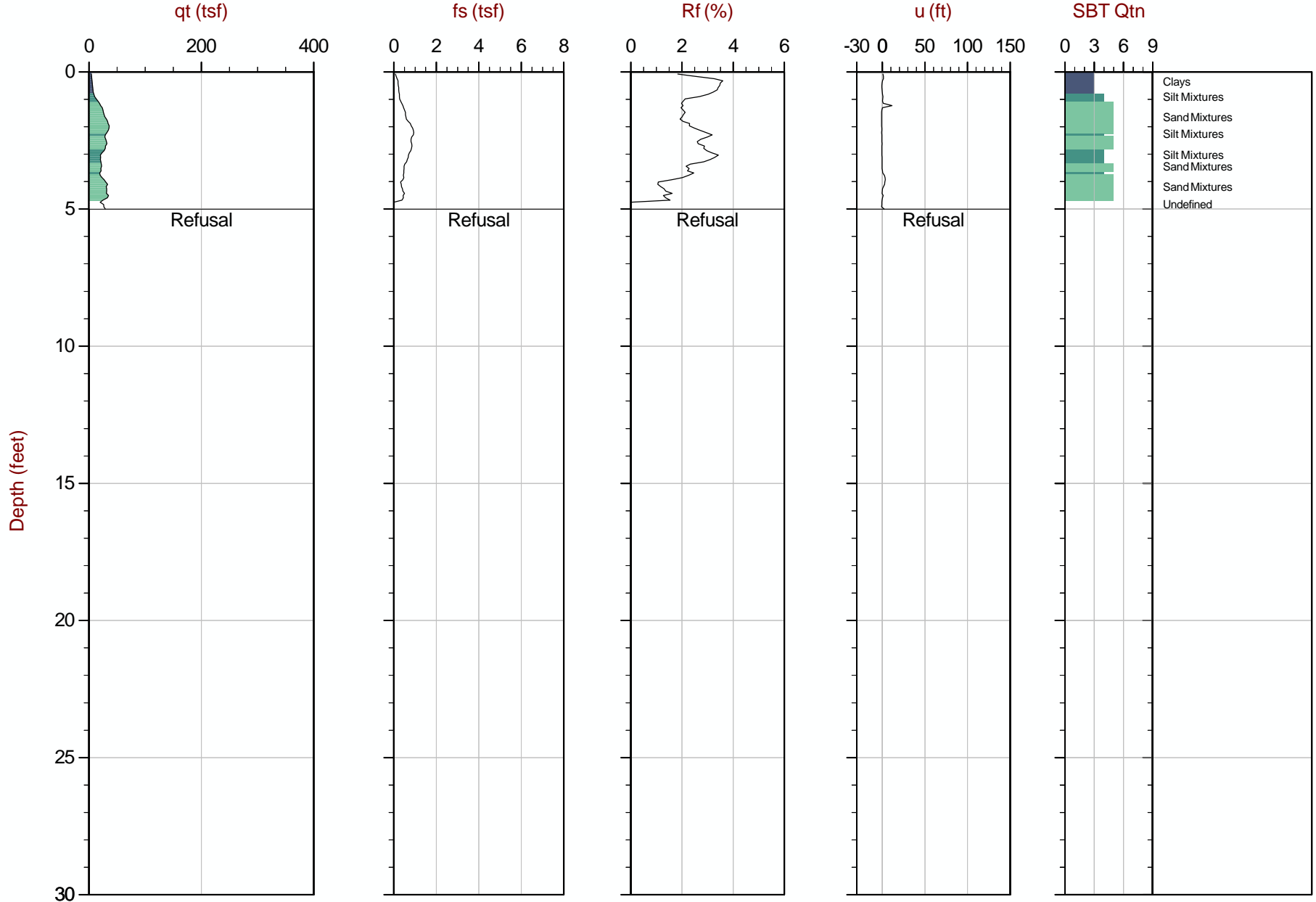
Job No: 23-53-26729

Date: 2023-10-27 12:08

Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-228

Cone: 606:T1500F15U35



Max Depth: 1.525 m / 5.00 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_SPB-228.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782803m E: 406617m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

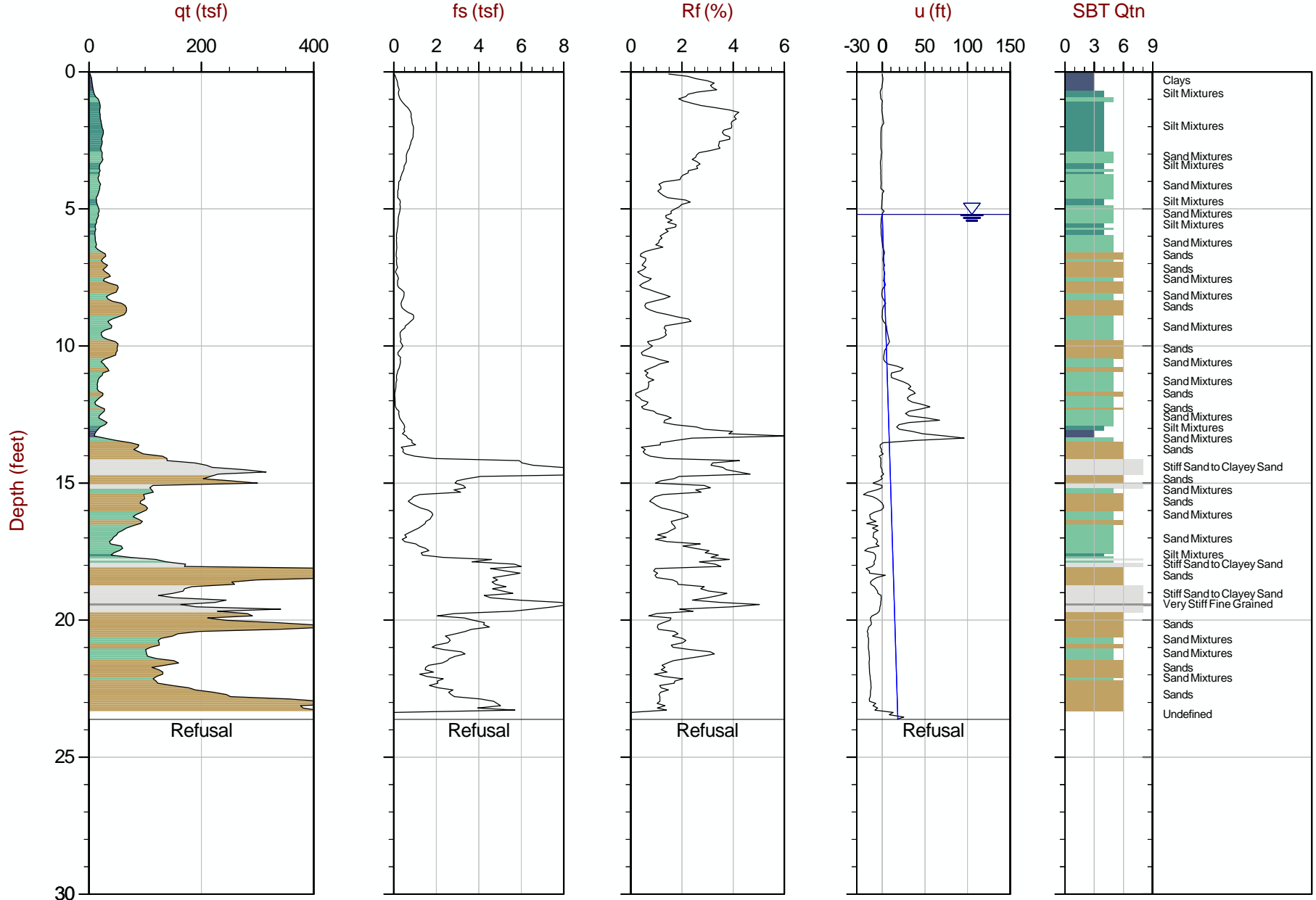
Job No: 23-53-26729

Date: 2023-10-27 13:08

Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-228A

Cone: 606:T1500F15U35



Max Depth: 7.200 m / 23.62 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_SPB-228A.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782805m E: 406616m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

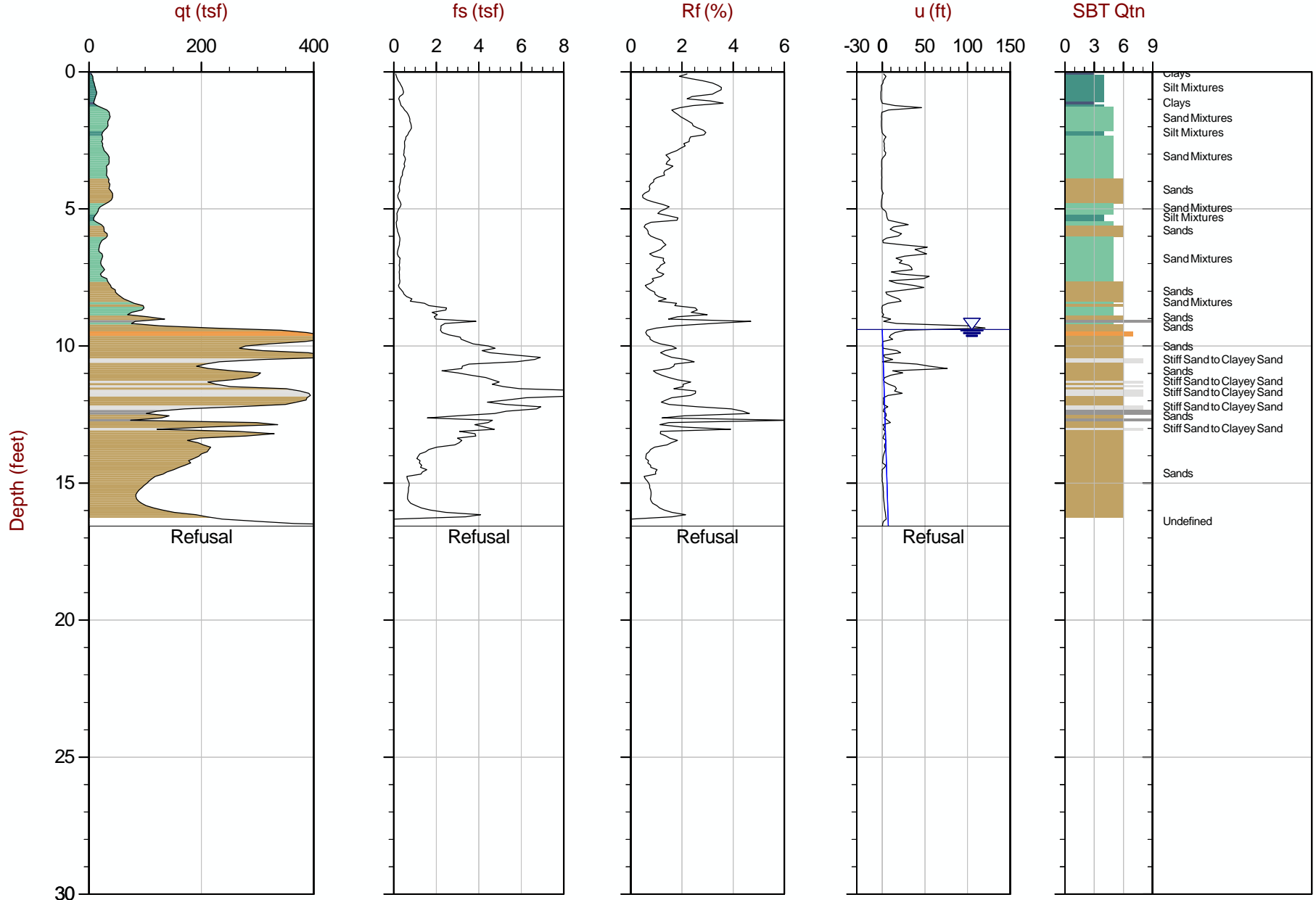
Job No: 23-53-26729

Date: 2023-10-27 09:53

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-237

Cone: 606:T1500F15U35



Max Depth: 5.050 m / 16.57 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-237.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782977m E: 406285m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

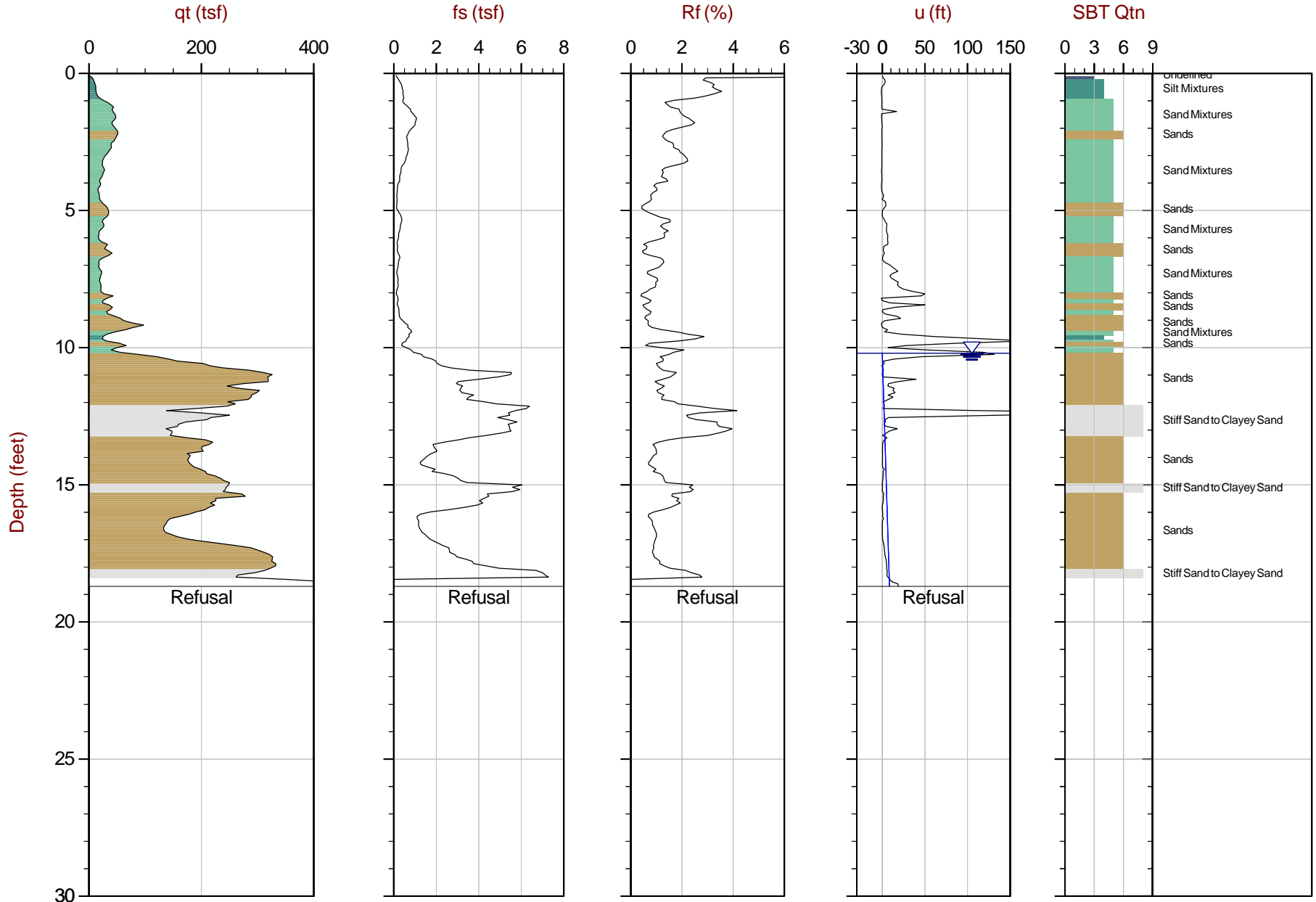
Job No: 23-53-26729

Date: 2023-10-27 10:16

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-238

Cone: 606:T1500F15U35



Max Depth: 5.700 m / 18.70 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-238.COR  
Unit Wt: SBTQtn(PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782942m E: 4063333m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

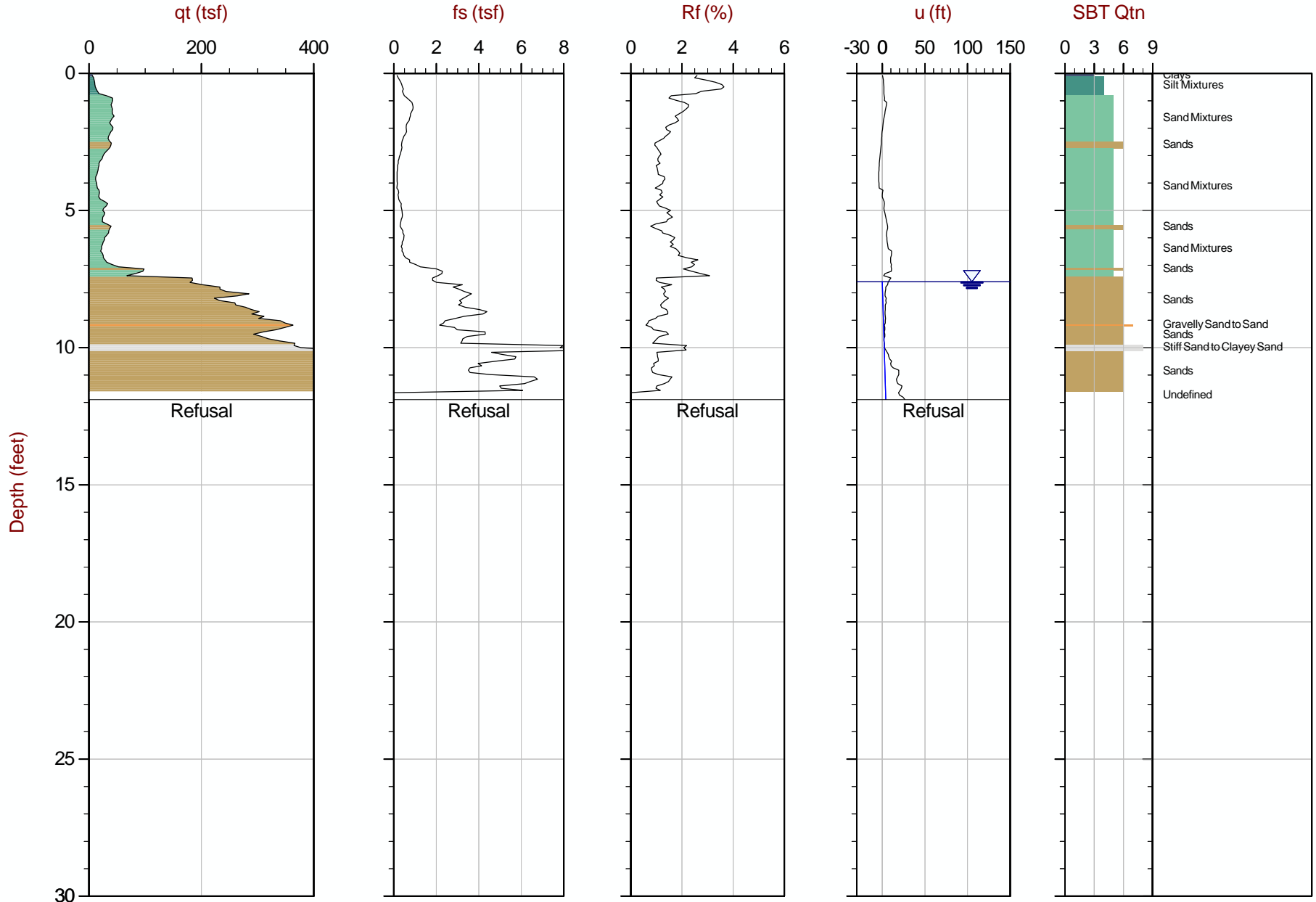
Job No: 23-53-26729

Date: 2023-10-26 07:33

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-243

Cone: 604:T1500F15U35



Max Depth: 3.625 m / 11.89 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-243.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782901m E: 406077m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

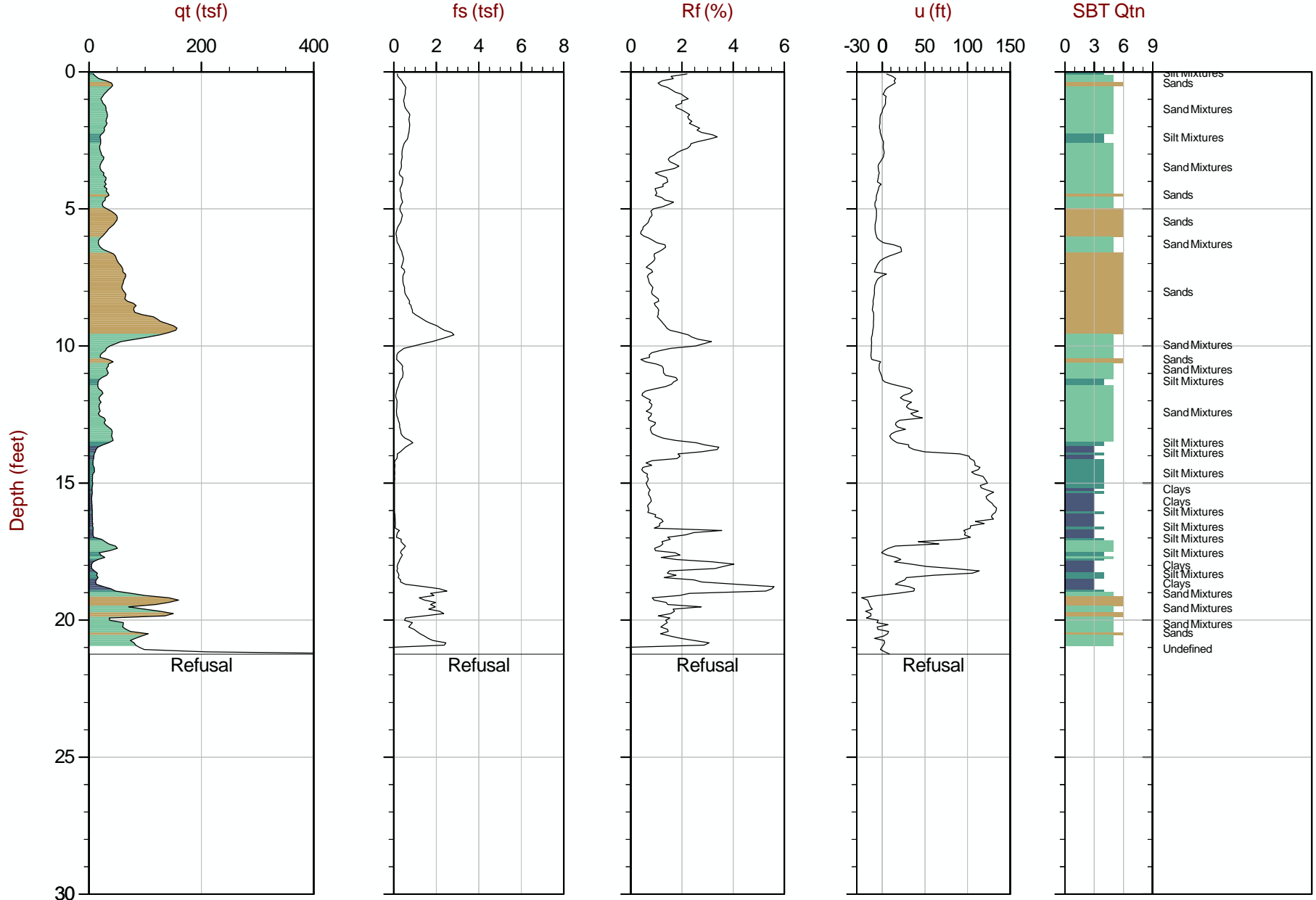
Job No: 23-53-26729

Date: 2023-10-26 09:50

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-244

Cone: 604:T1500F15U35



Max Depth: 6.475 m / 21.24 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-244.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782940m E: 406022m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.





**CME Associates**

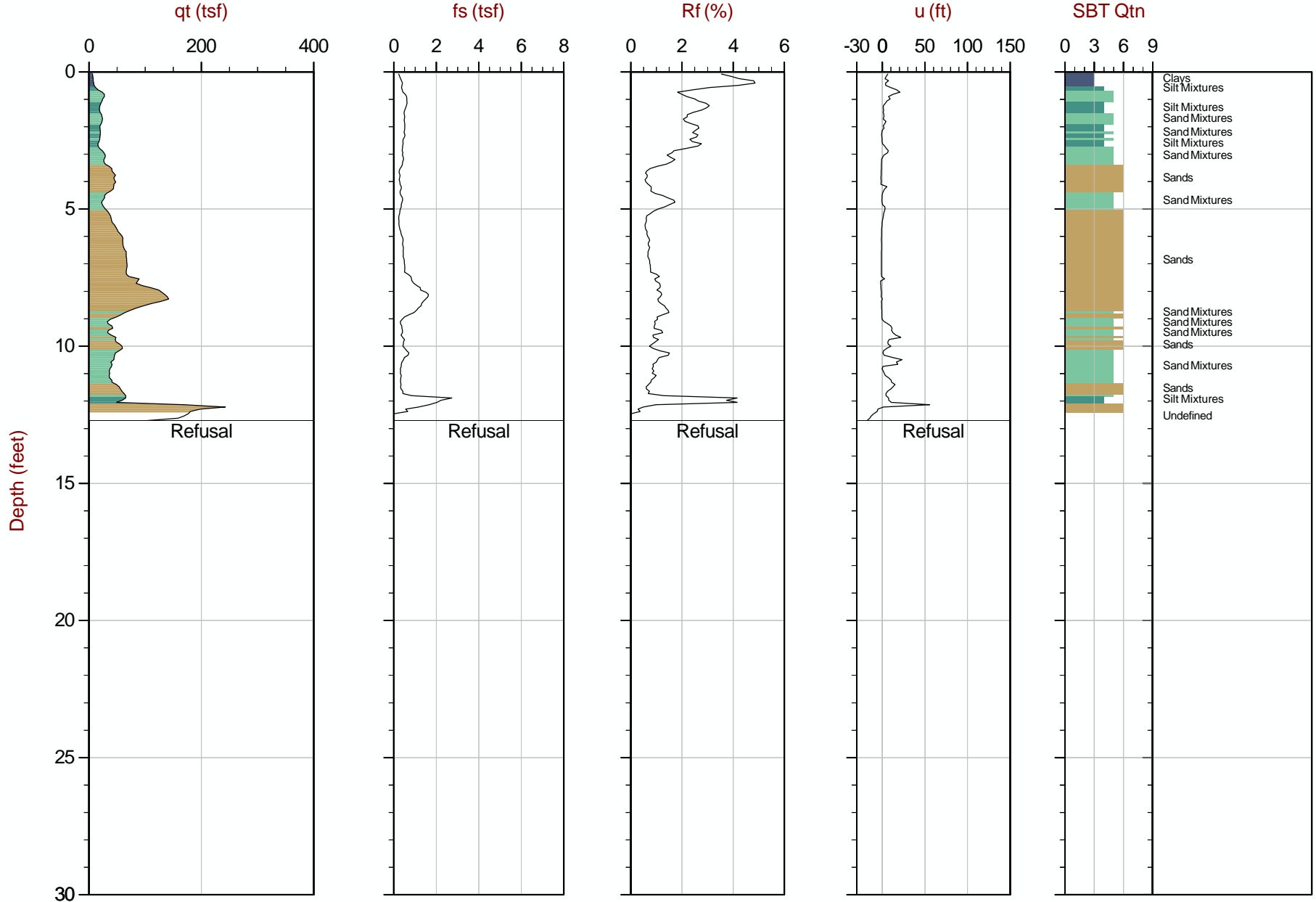
Job No: 23-53-26729

Date: 2023-10-26 11:06

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-246

Cone: 606:T1500F15U35



Max Depth: 3.875 m / 12.71 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-246.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782950m E: 405893m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

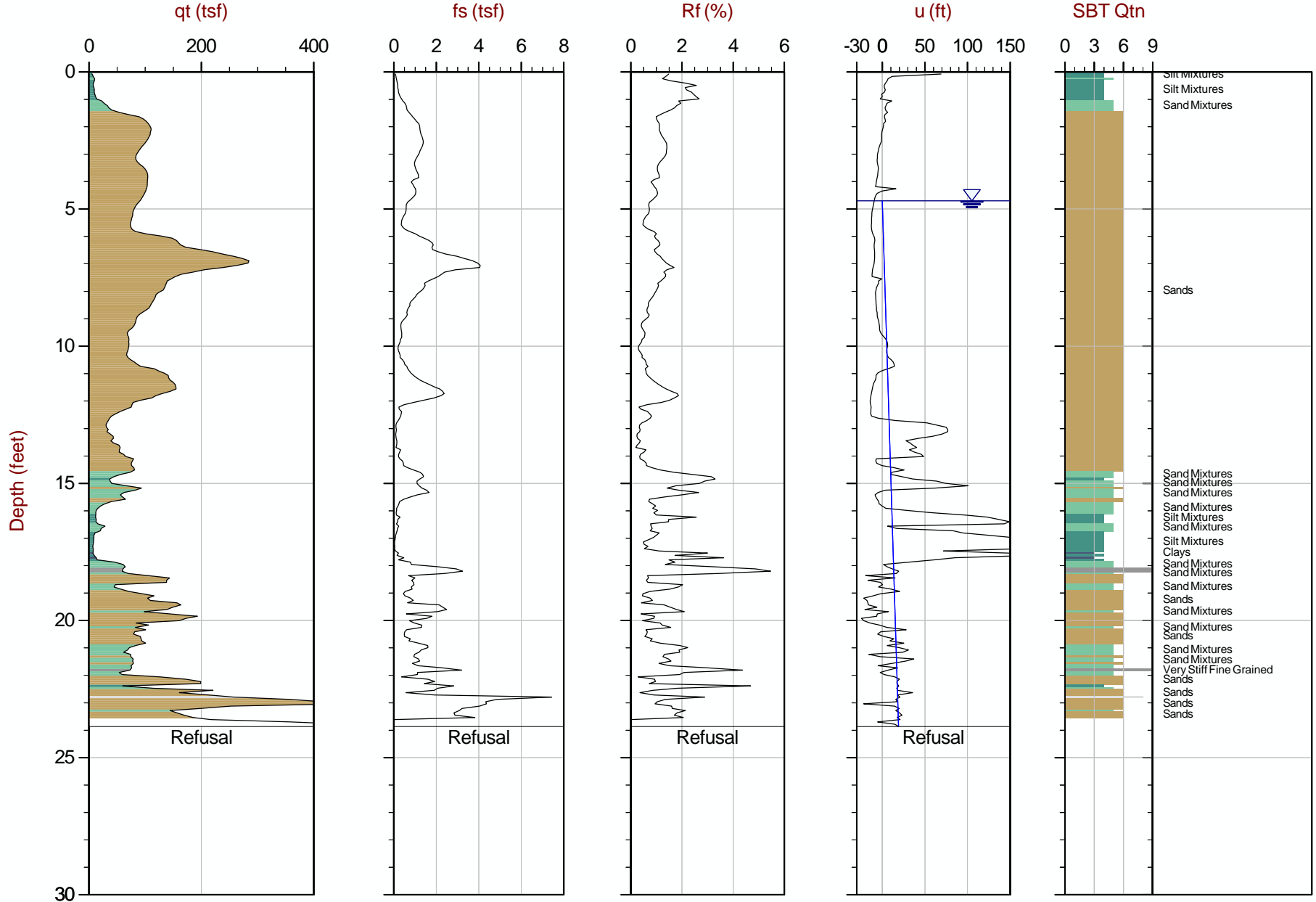
Job No: 23-53-26729

Date: 2023-10-26 12:00

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-252

Cone: 606:T1500F15U35



Max Depth: 7.275 m / 23.87 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-252.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783005m E: 405730m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

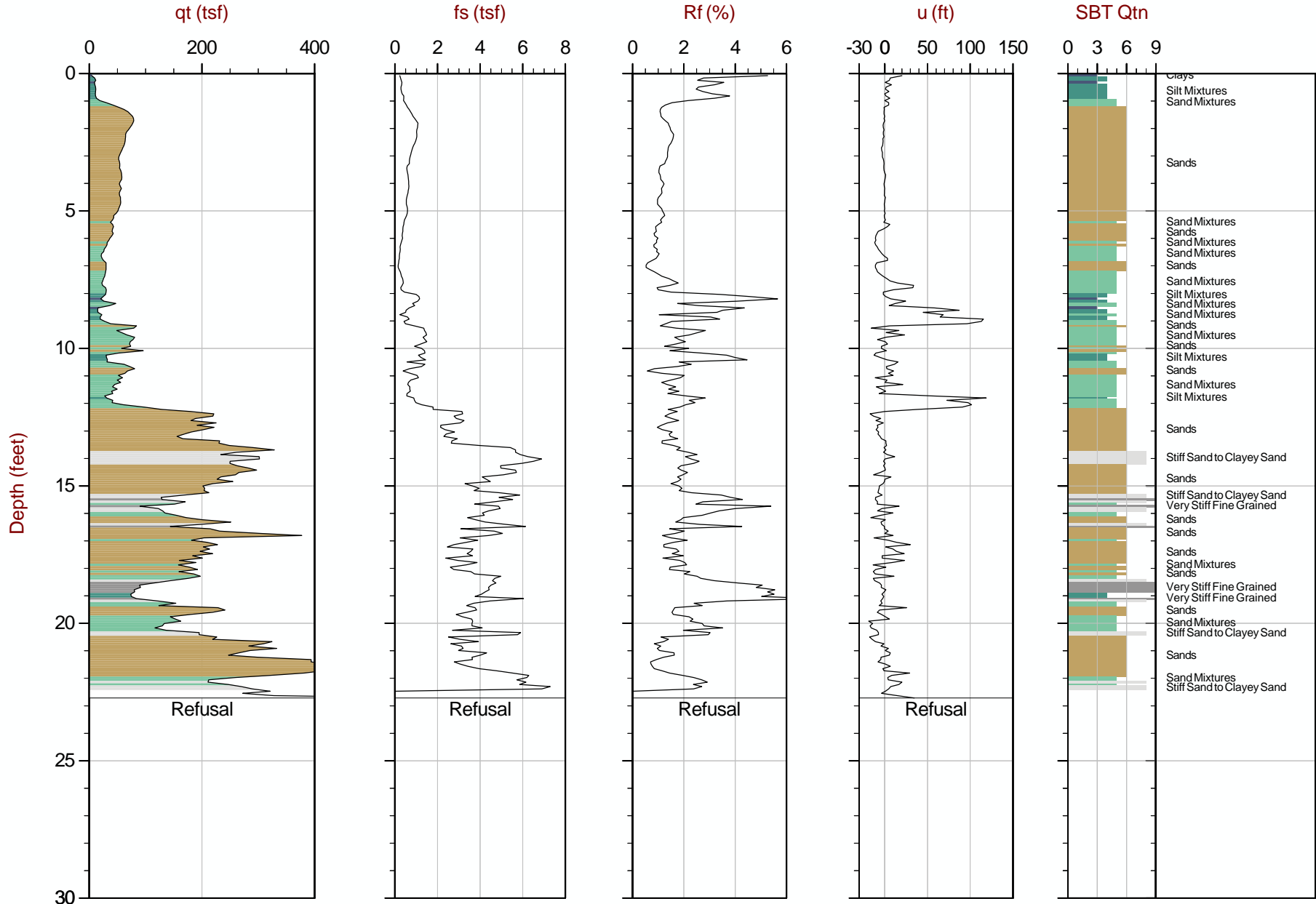
Job No: 23-53-26729

Date: 2023-10-26 12:47

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-261

Cone: 606:T1500F15U35



Max Depth: 6.925 m / 22.72 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-261.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783025m E: 405815m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

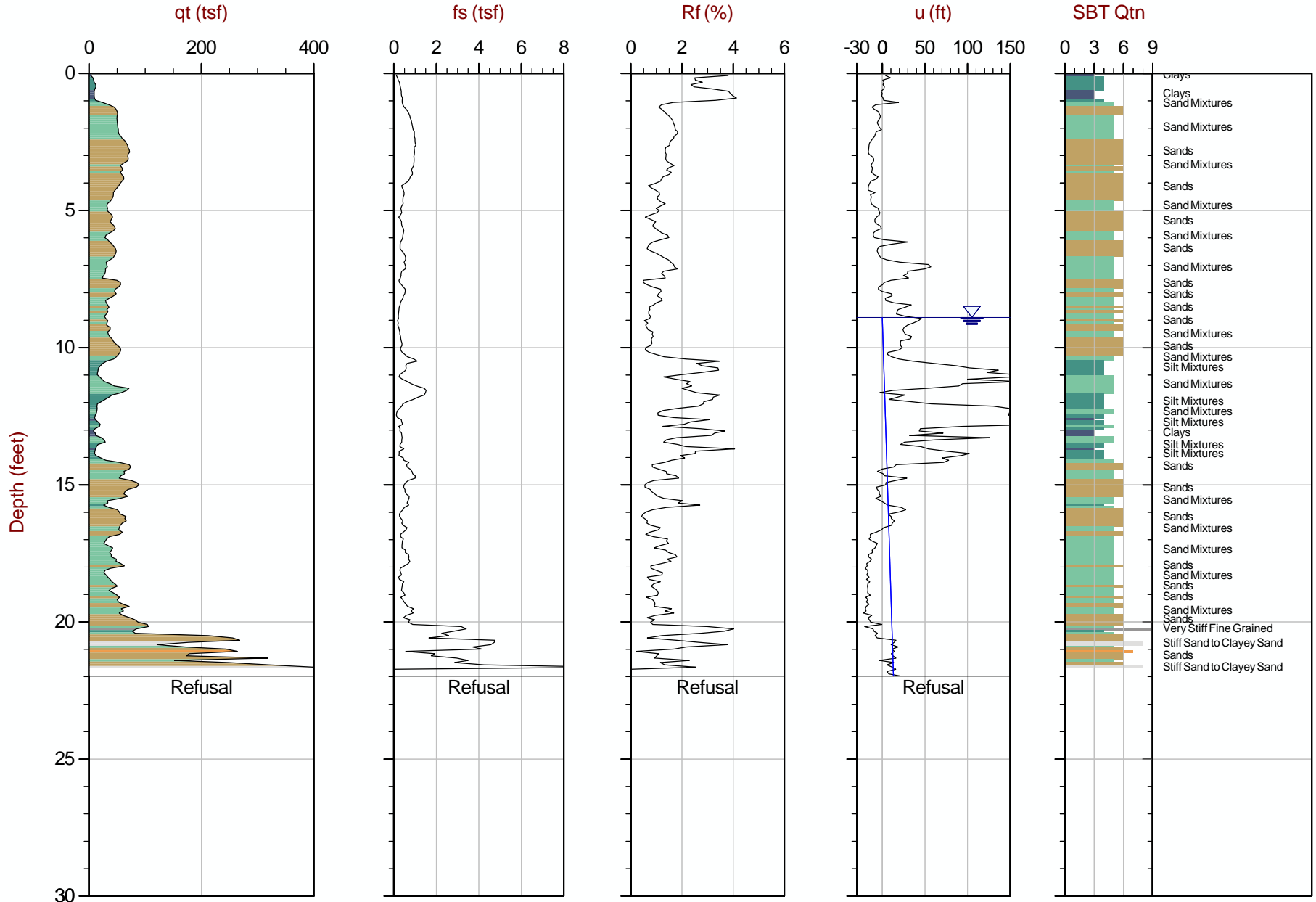
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 15:56  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-262  
Cone: 606:T1500F15U35



Max Depth: 6.700 m / 21.98 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-262.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782994m E: 405928m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◁ PPD, Ueq achieved   ◁ PPD, Ueq not achieved

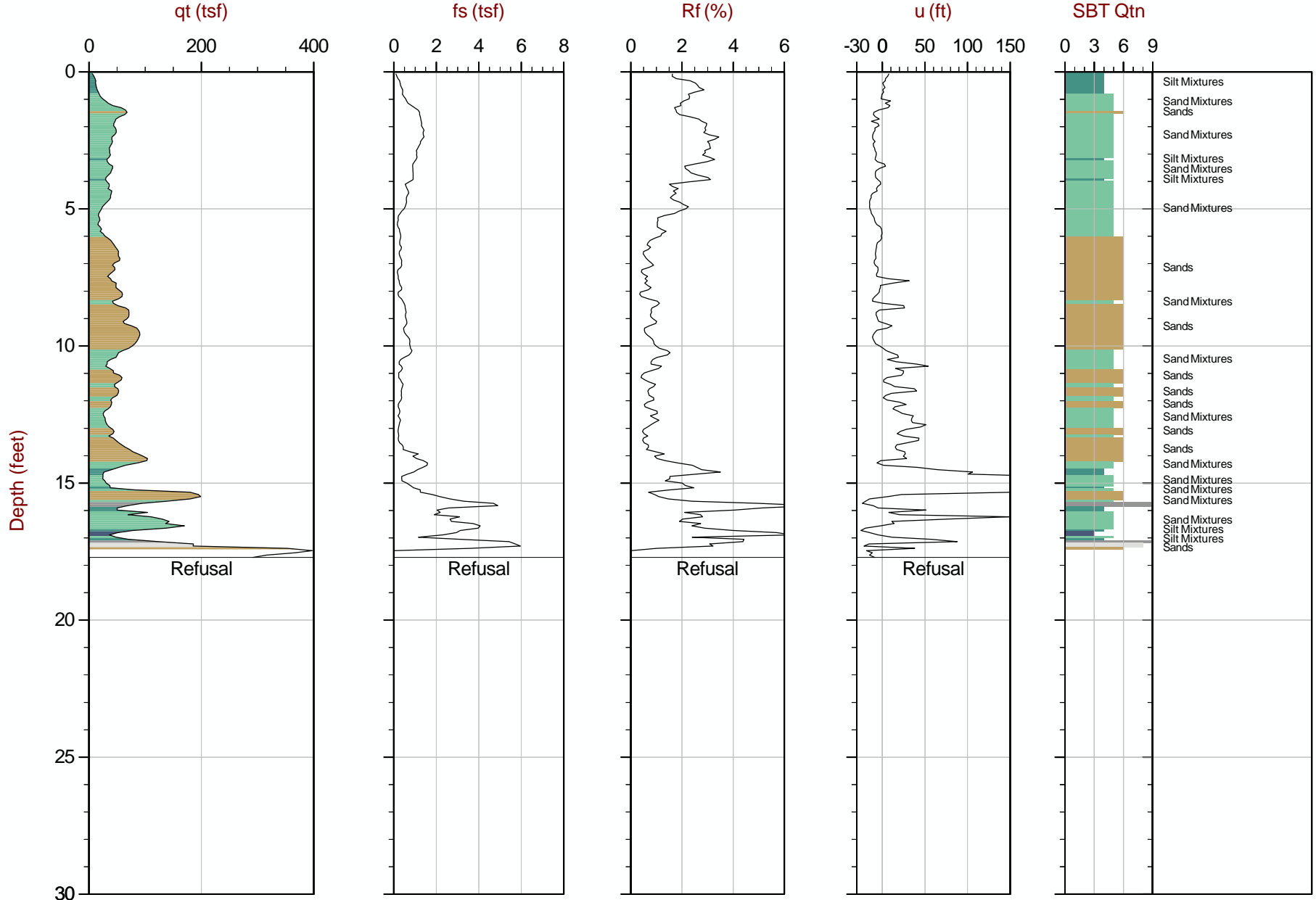
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 13:48  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-270  
Cone: 606:T1500F15U35



Max Depth: 5.400 m / 17.72 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-270.COR  
Unit Wt: SBTQtn(PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783073m E: 405910m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

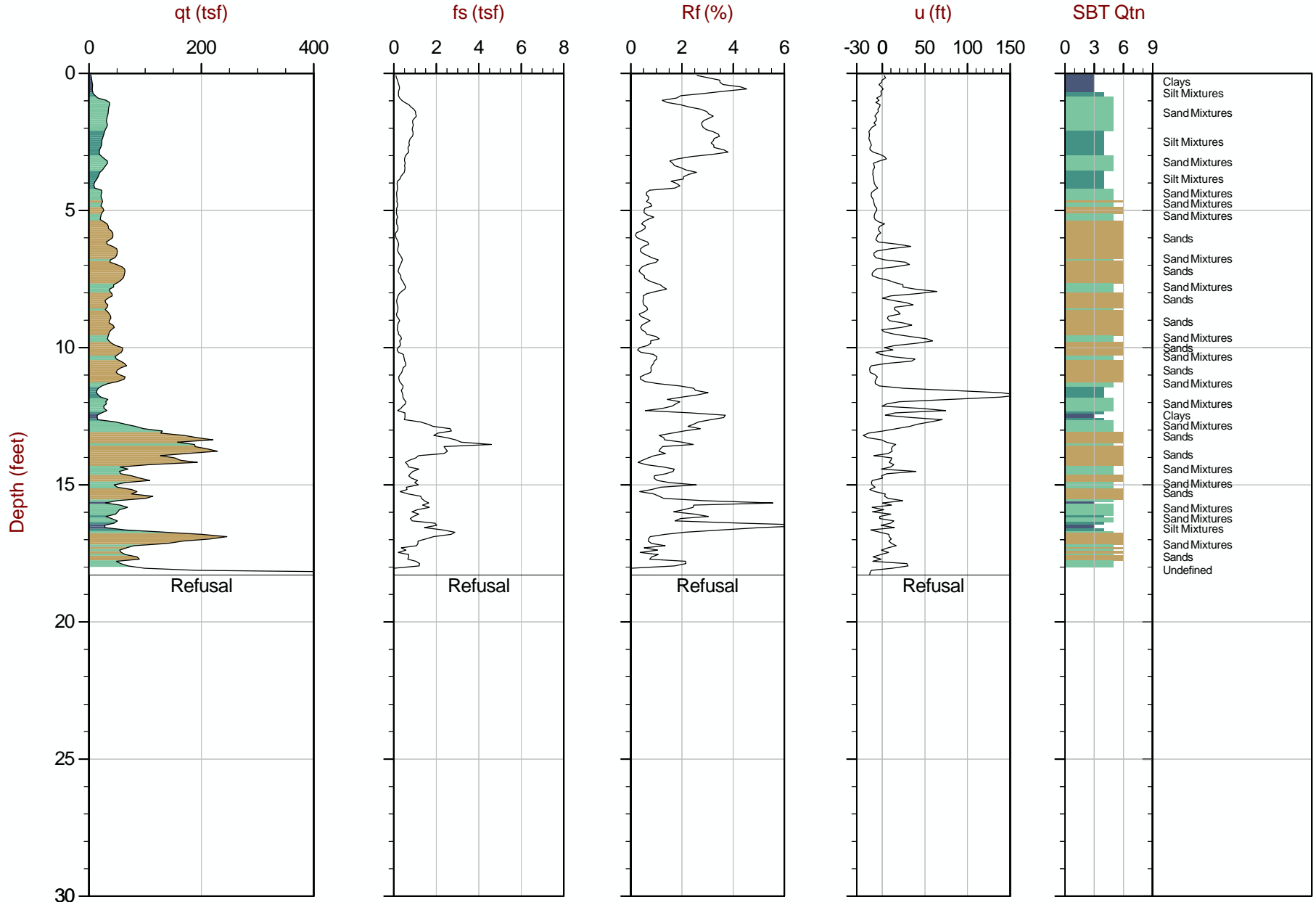
Job No: 23-53-26729

Date: 2023-10-26 14:26

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-280

Cone: 606:T1500F15U35



Max Depth: 5.575 m / 18.29 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-280.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783111m E: 405890m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

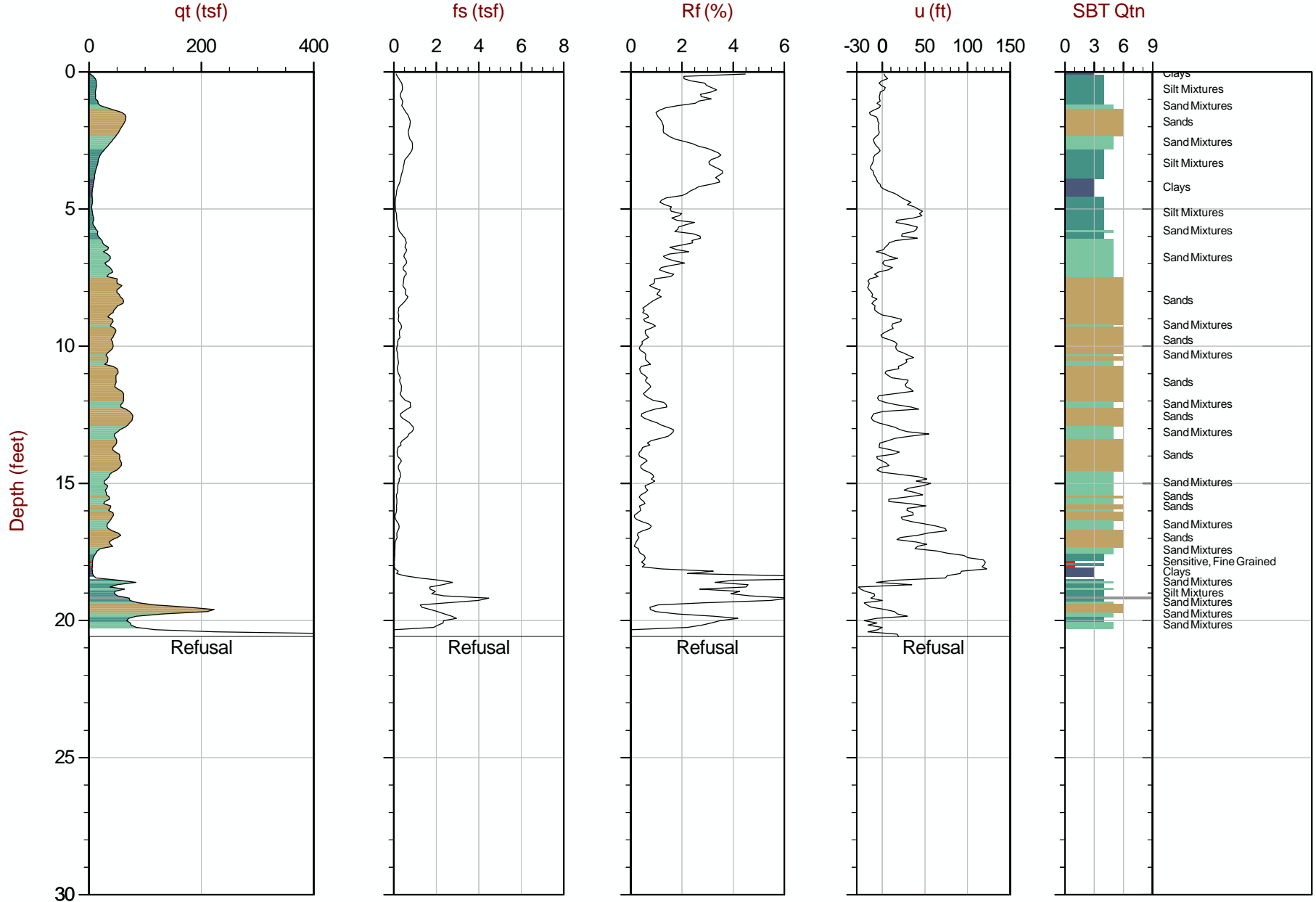
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 15:06  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-282  
Cone: 606:T1500F15U35



Max Depth: 6.275 m / 20.59 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-282.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783220m E: 405930m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

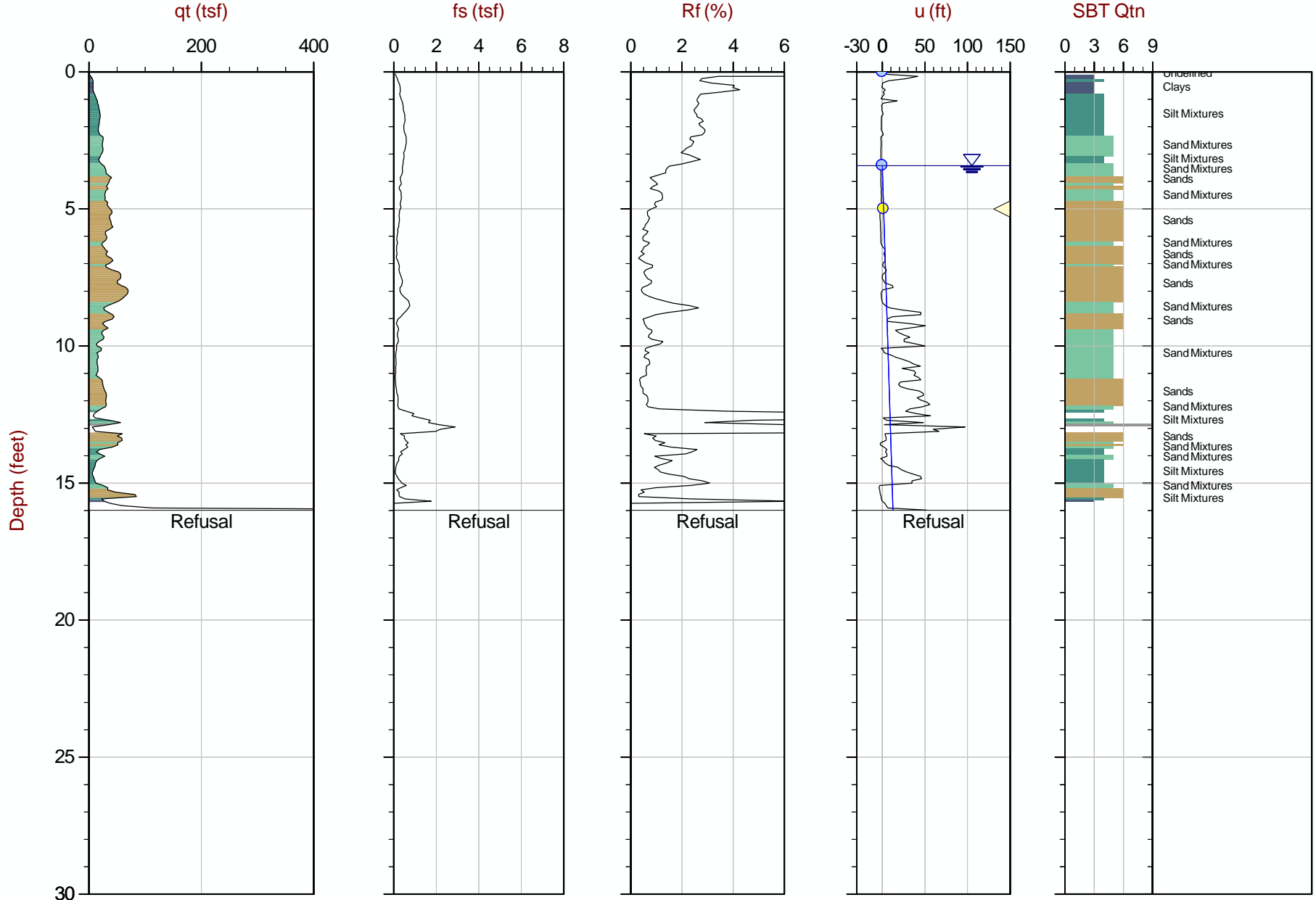
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 08:32  
Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-293  
Cone: 606:T1500F15U35



Max Depth: 4.875 m / 15.99 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_SPB-293.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783206m E: 406149m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.





**CME Associates**

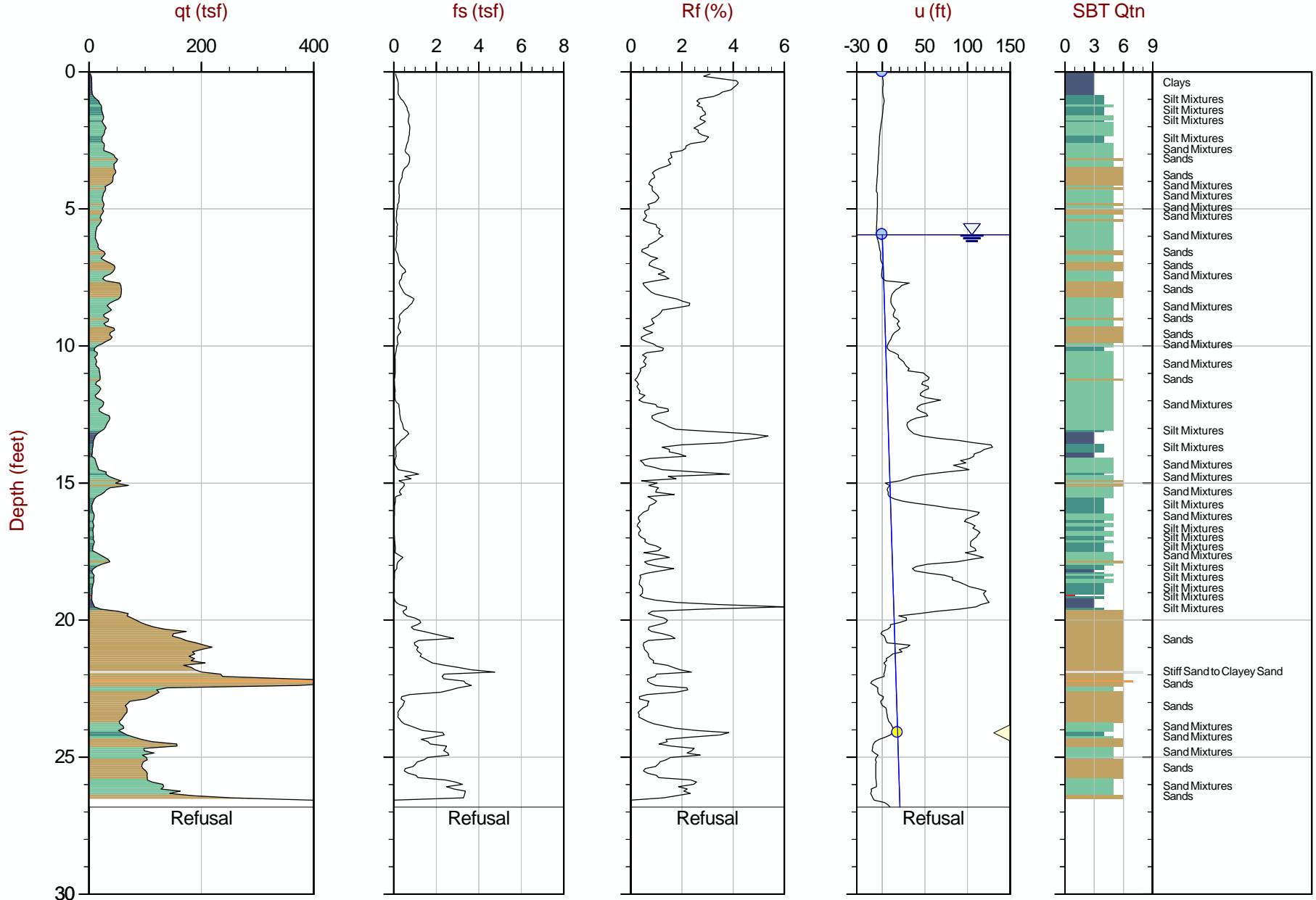
Job No: 23-53-26729

Date: 2023-10-26 08:32

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-312

Cone: 604:T1500F15U35



Max Depth: 8.175 m / 26.82 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-312.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782765m E: 406355m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

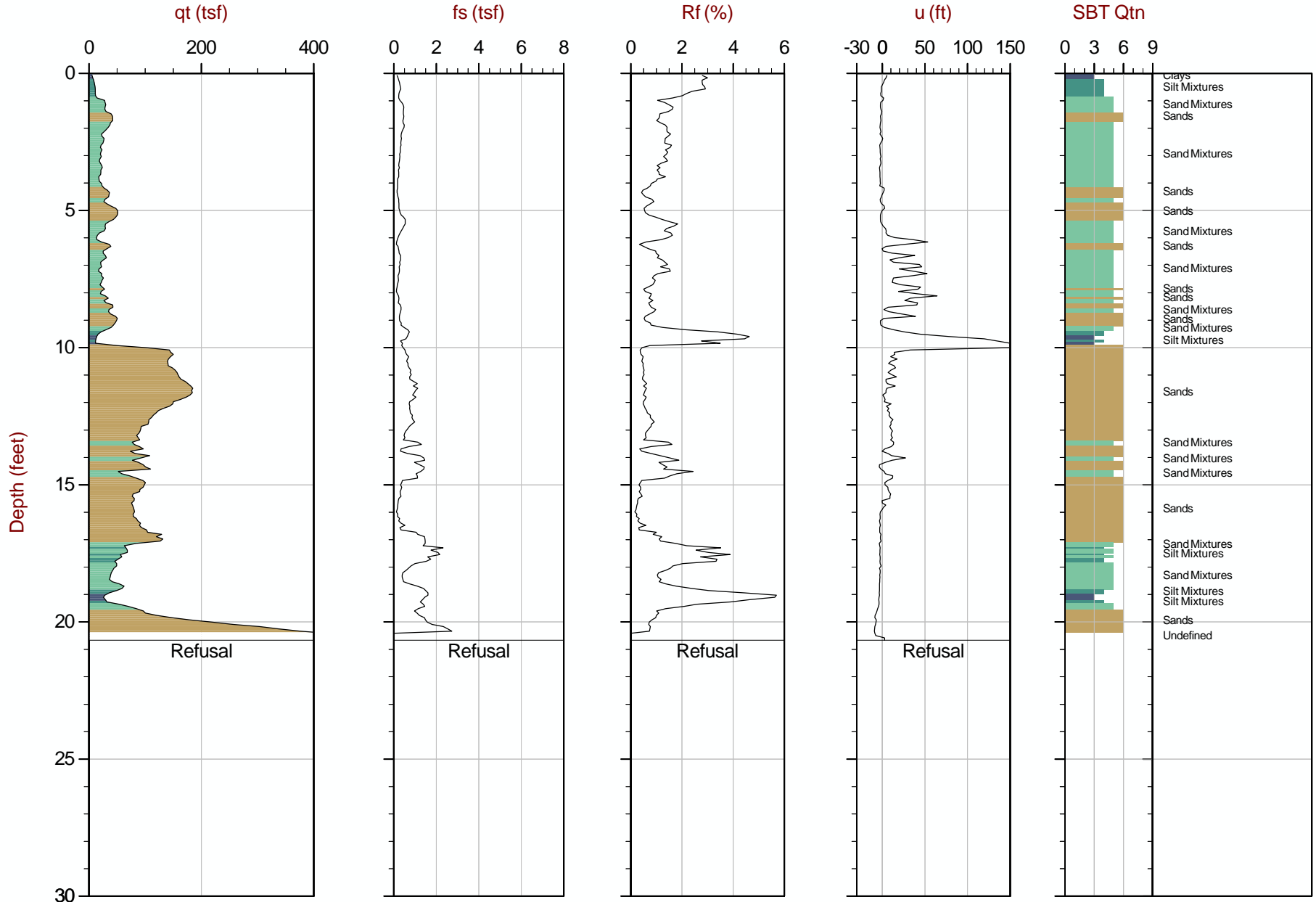
Job No: 23-53-26729

Date: 2023-10-28 11:06

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-325

Cone: 606:T1500F15U35



Max Depth: 6.300 m / 20.67 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-325.COR  
Unit Wt: SBTQtn(PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782627m E: 406459m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

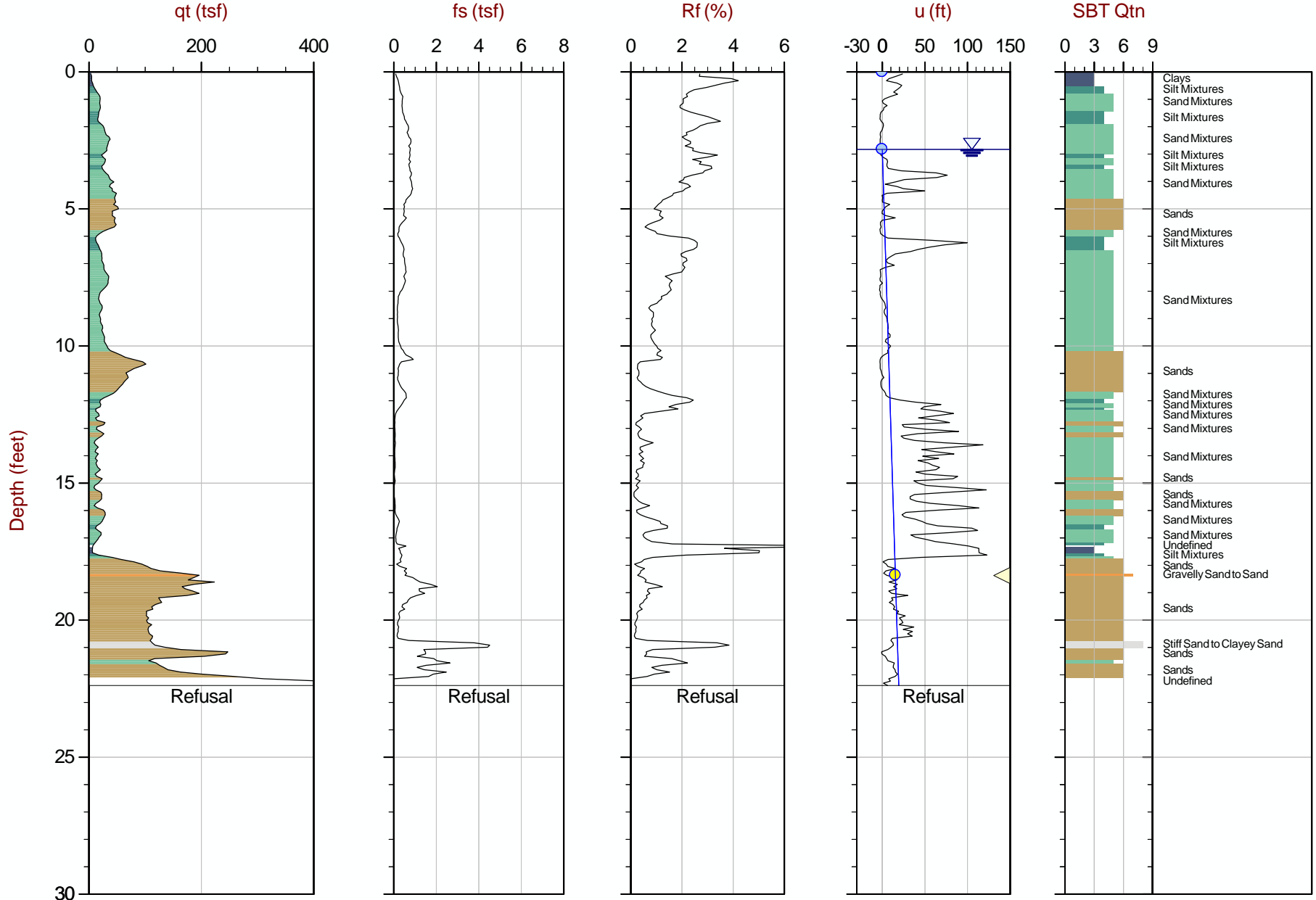
Job No: 23-53-26729

Date: 2023-10-28 10:06

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-327

Cone: 606:T1500F15U35



Max Depth: 6.825 m / 22.39 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-327.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782553m E: 406579m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

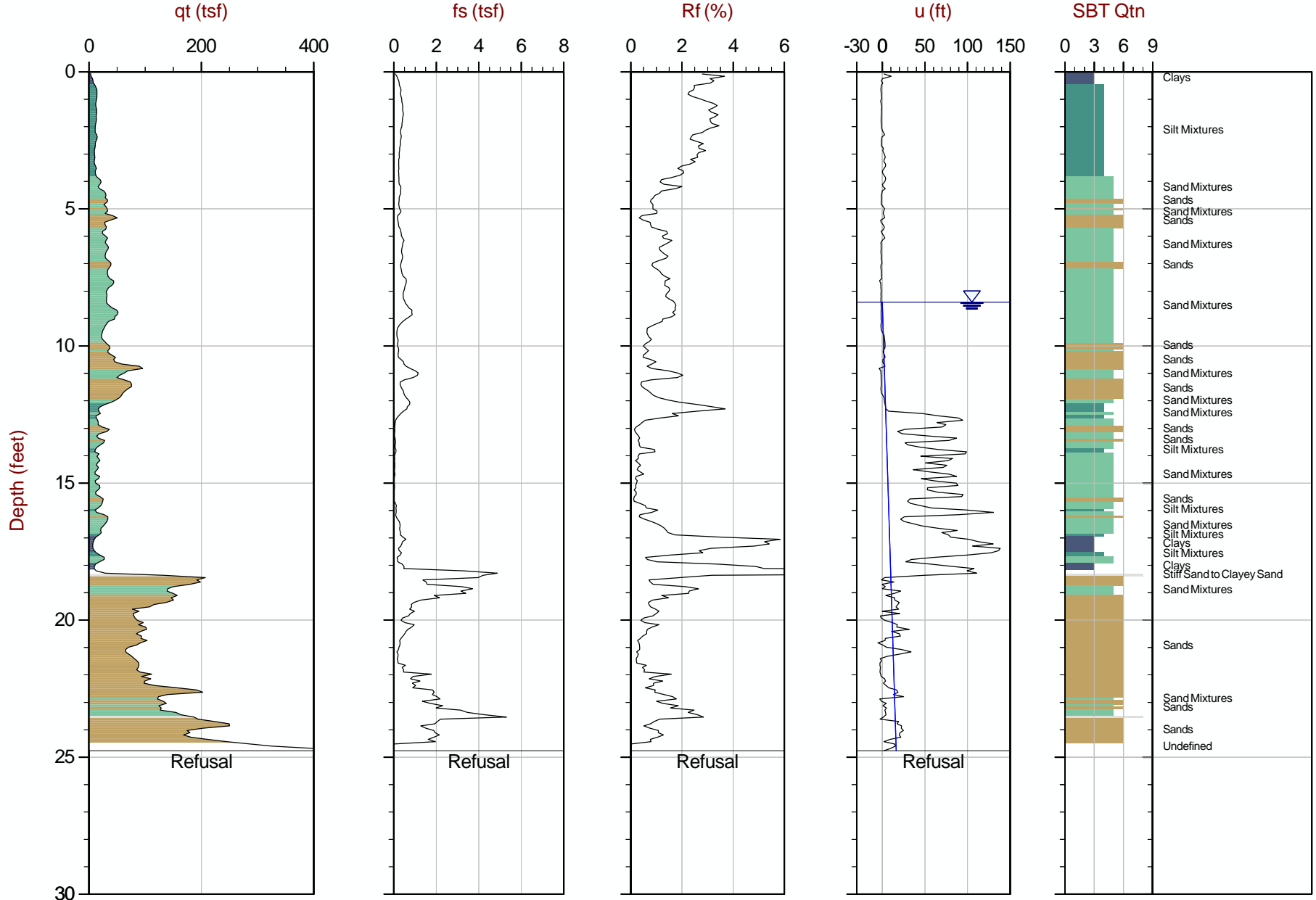
Job No: 23-53-26729

Date: 2023-10-28 09:35

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-329

Cone: 606:T1500F15U35



Max Depth: 7.550 m / 24.77 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-329.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782556m E: 406475m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◁ PPD, Ueq achieved   ◁ PPD, Ueq not achieved

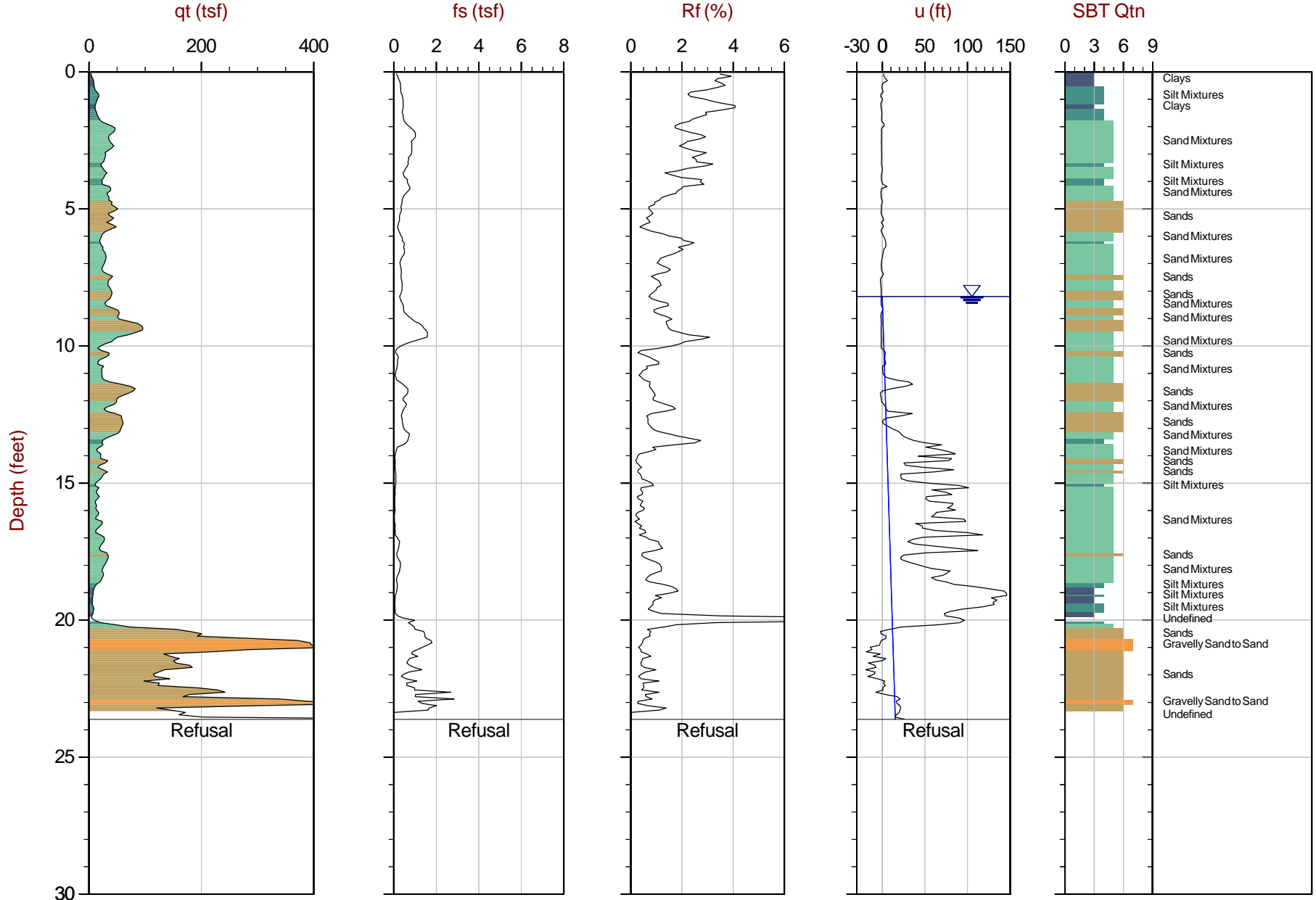
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 08:46  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-330  
Cone: 606:T1500F15U35



Max Depth: 7.200 m / 23.62 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-330.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782560m E: 406351m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

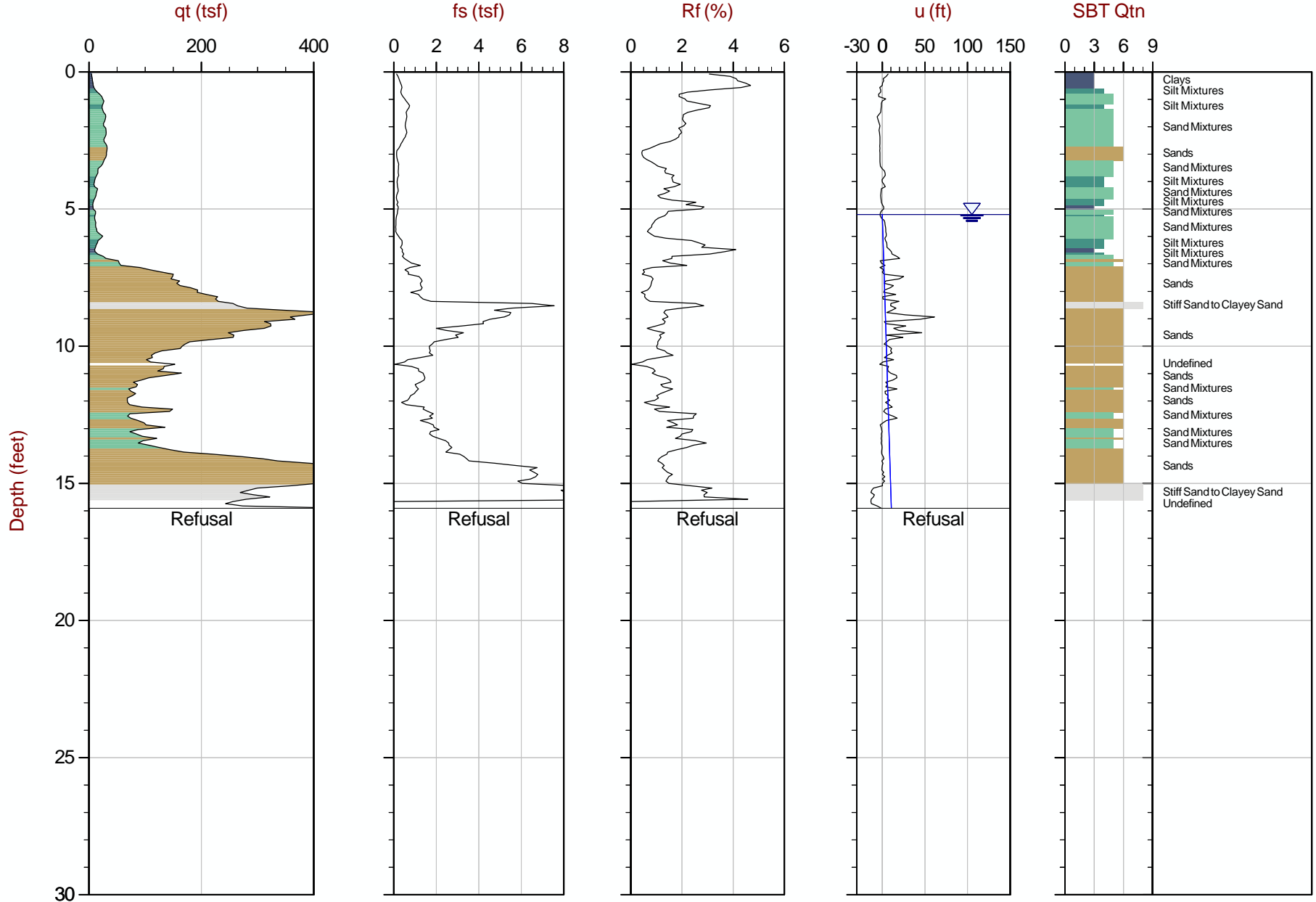
Job No: 23-53-26729

Date: 2023-10-28 07:24

Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-332

Cone: 606:T1500F15U35



Max Depth: 4.850 m / 15.91 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_SPB-332.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782558m E: 406102m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

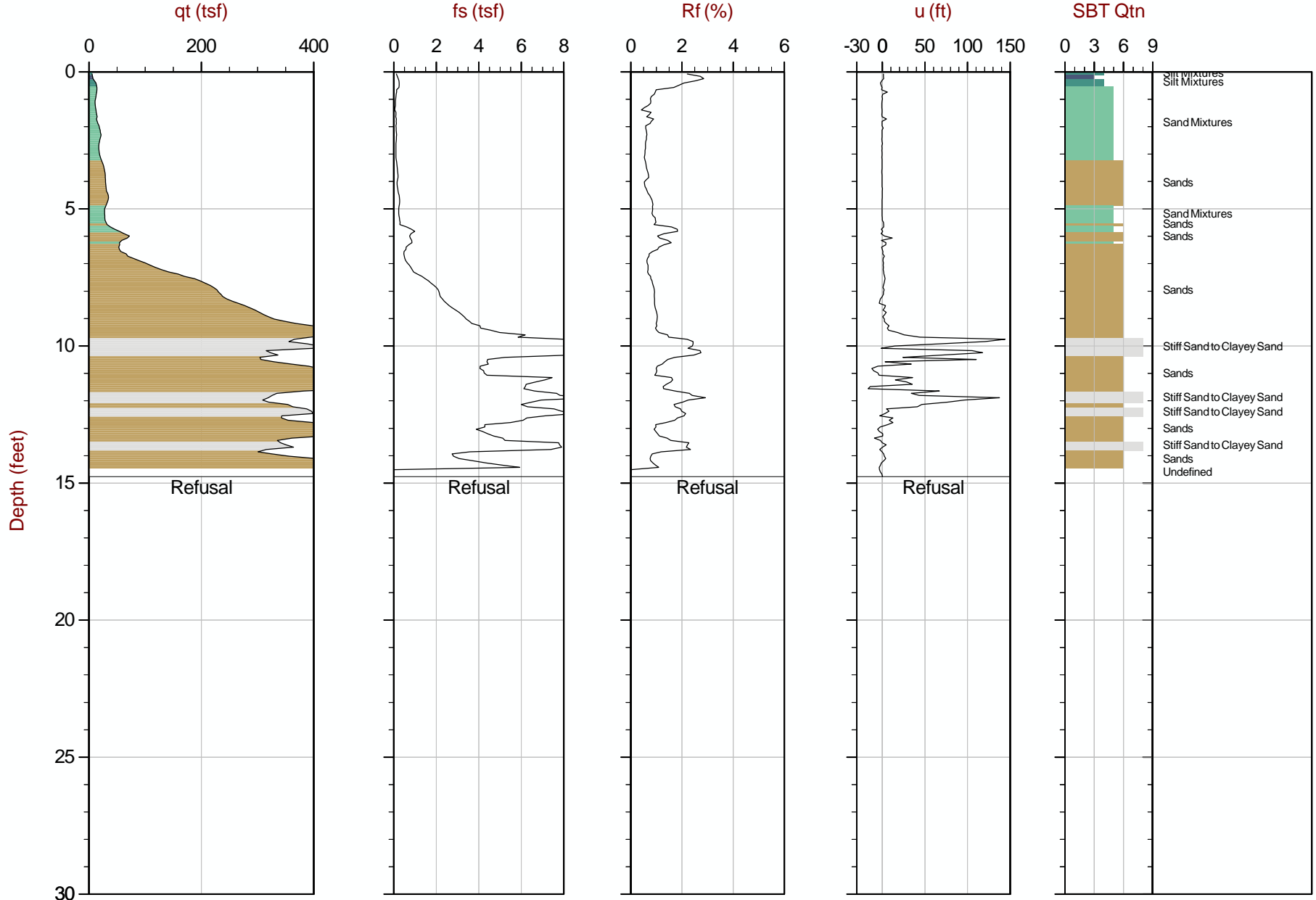
Job No: 23-53-26729

Date: 2023-10-27 16:22

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-345

Cone: 606:T1500F15U35



Max Depth: 4.500 m / 14.76 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-345.COR  
Unit Wt: SBTQtn(PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782374m E: 406153m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

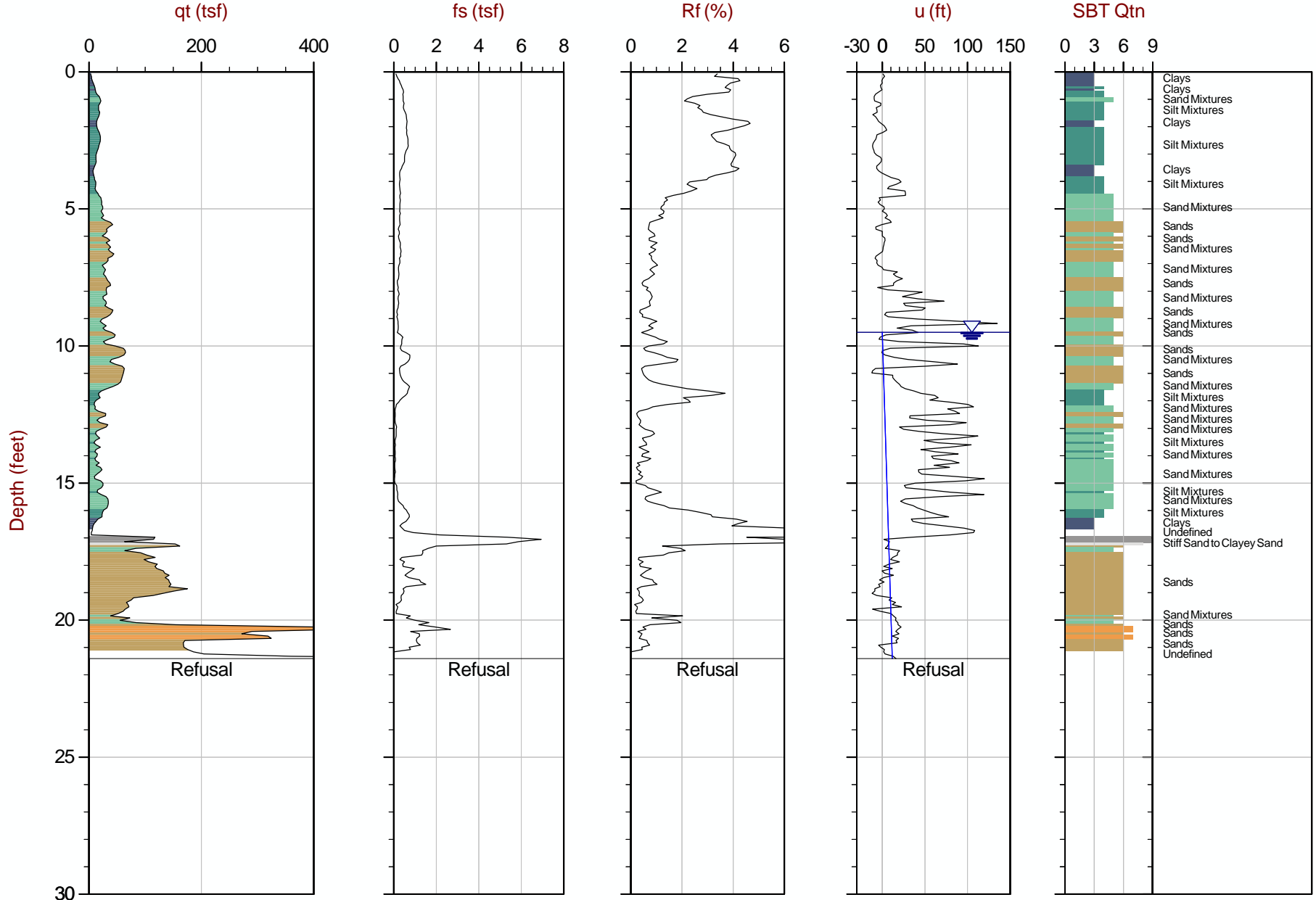
Job No: 23-53-26729

Date: 2023-10-27 15:44

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-351

Cone: 606:T1500F15U35



Max Depth: 6.525 m / 21.41 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-351.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782409m E: 406505m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.





**CME Associates**

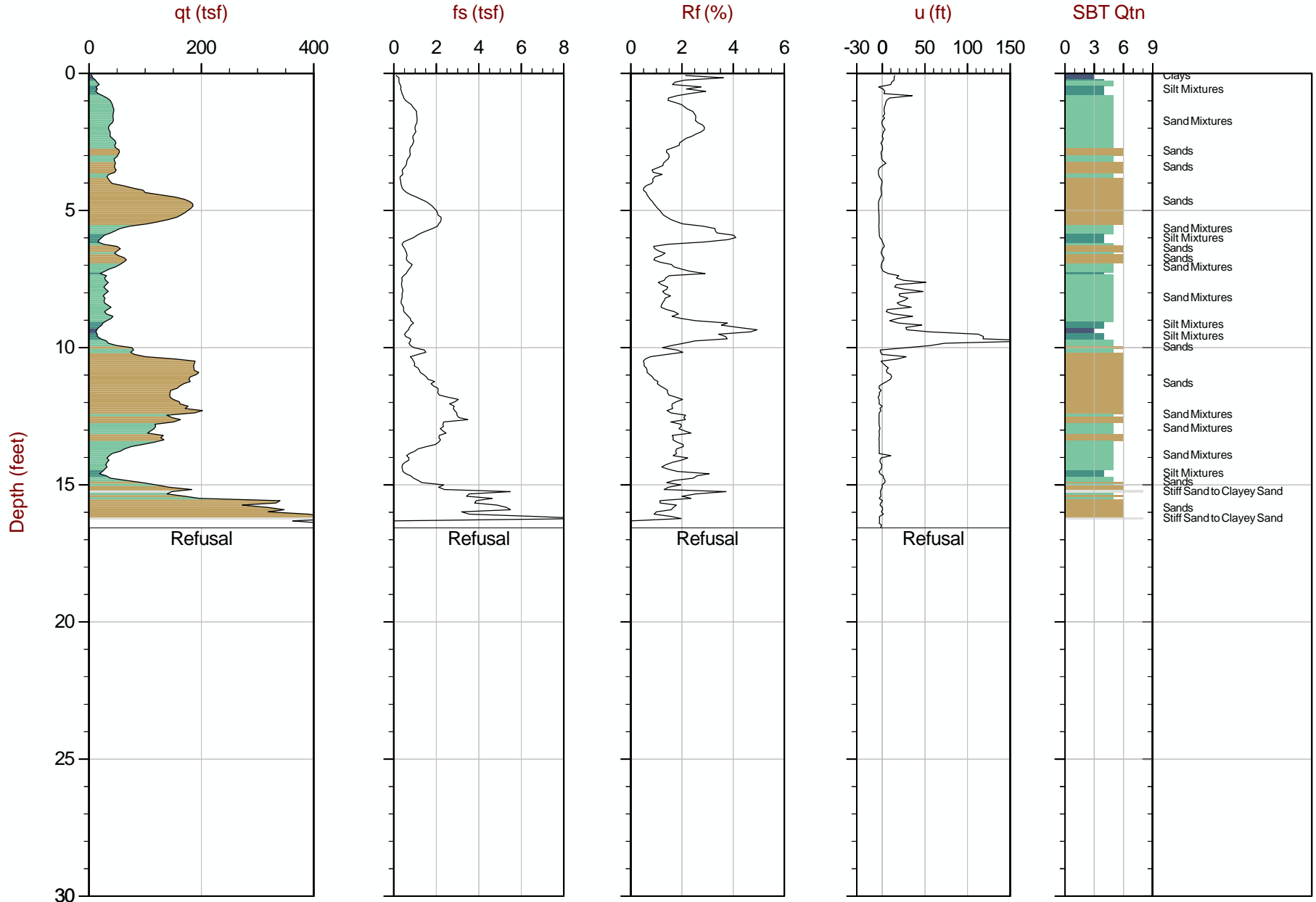
Job No: 23-53-26729

Date: 2023-10-28 15:41

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-360

Cone: 606:T1500F15U35



Max Depth: 5.050 m / 16.57 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-360.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782560m E: 405998m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



CME Associates

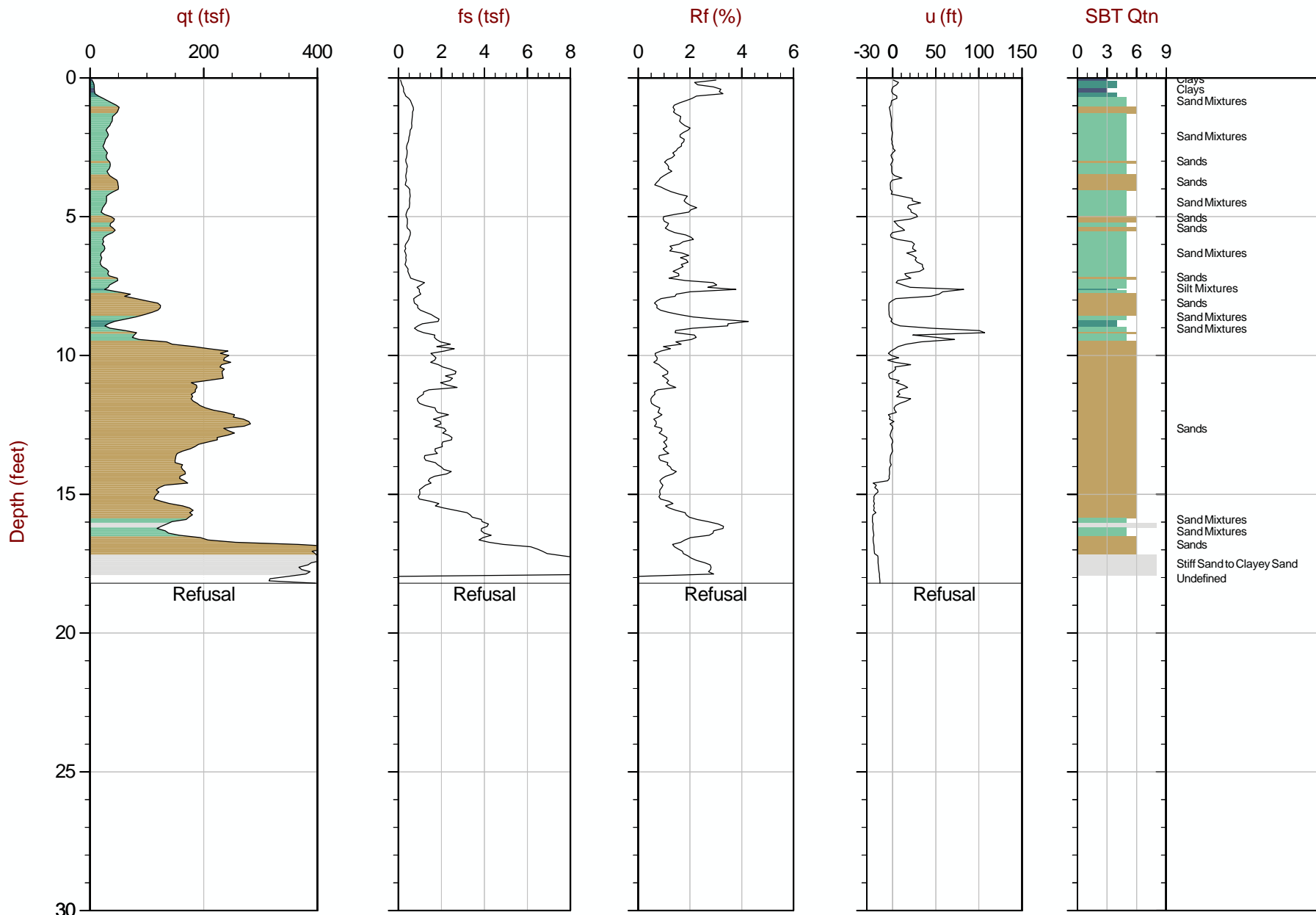
Job No: 23-53-26729

Date: 2023-10-28 15:11

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-362

Cone: 606:T1500F15U35



Max Depth: 5.550 m / 18.21 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-362.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782651m E: 405887m

Hydrostatic Line Ueq Assumed Ueq PPD, Ueq achieved PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

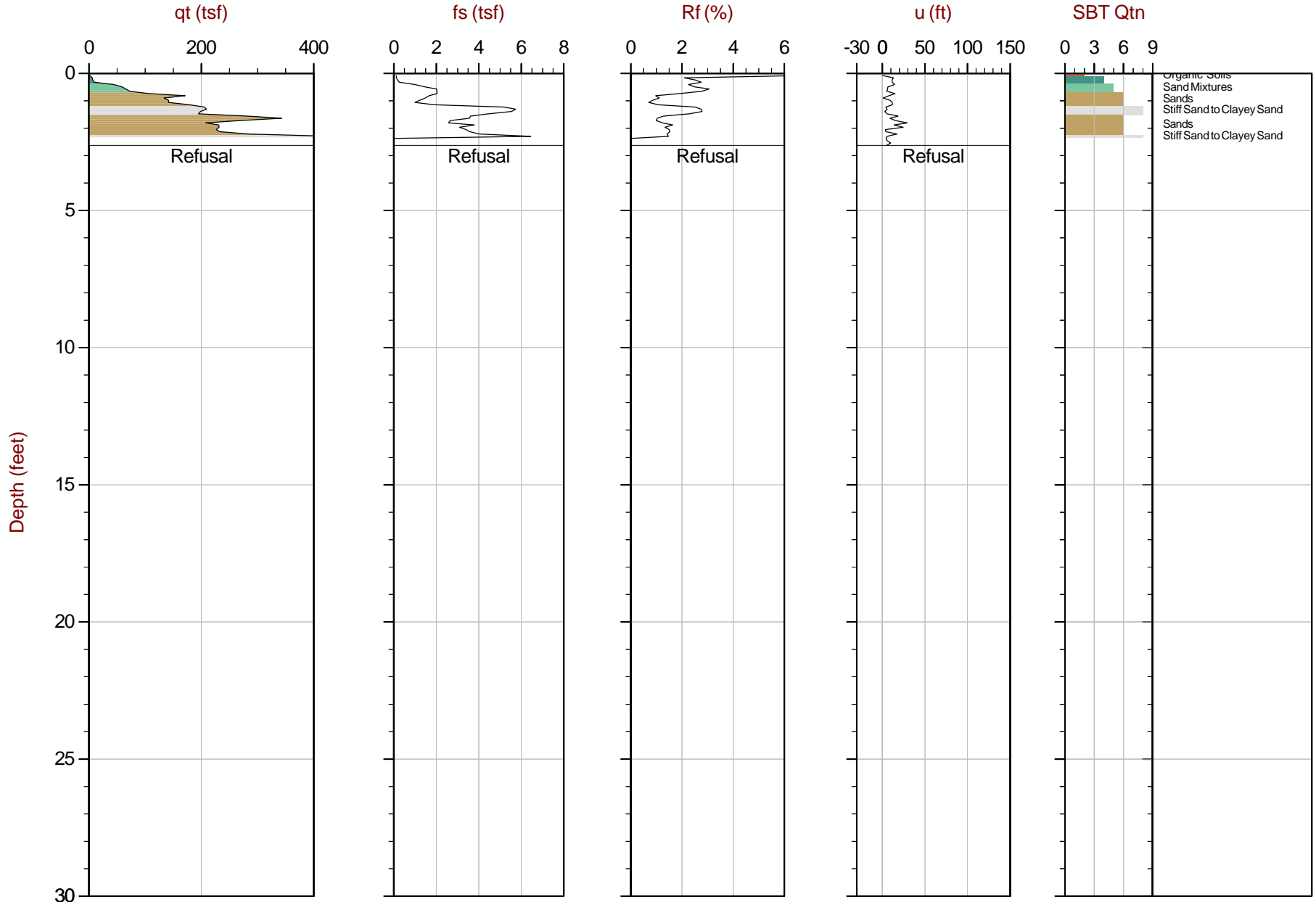
Job No: 23-53-26729

Date: 2023-10-28 14:34

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-365

Cone: 606:T1500F15U35



Max Depth: 0.800 m / 2.62 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-365.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782724m E: 405704m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◀ PPD, Ueq achieved ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

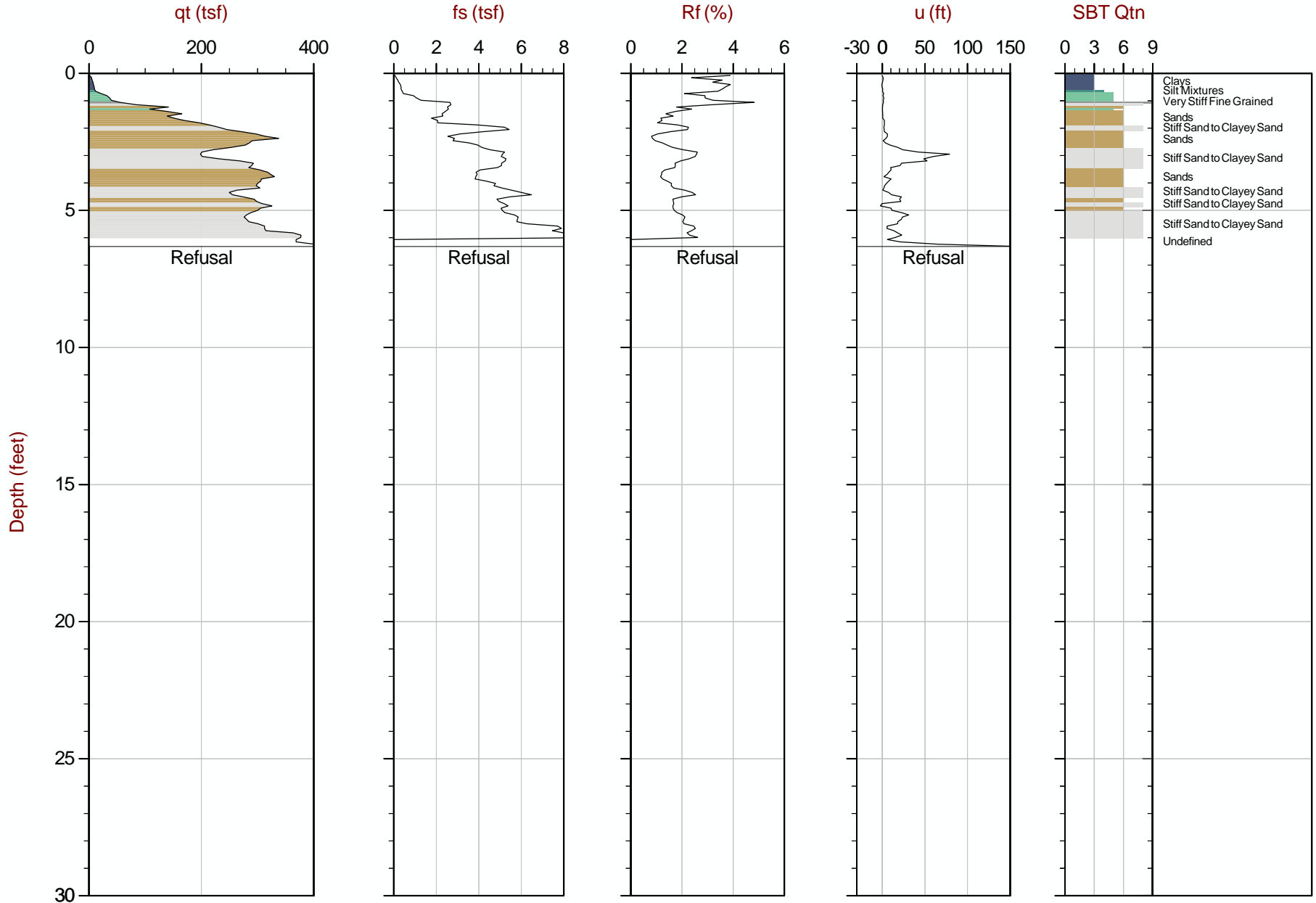
Job No: 23-53-26729

Date: 2023-10-28 14:44

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-365A

Cone: 606:T1500F15U35



Max Depth: 1.925 m / 6.32 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-365A.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782716m E: 405705m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

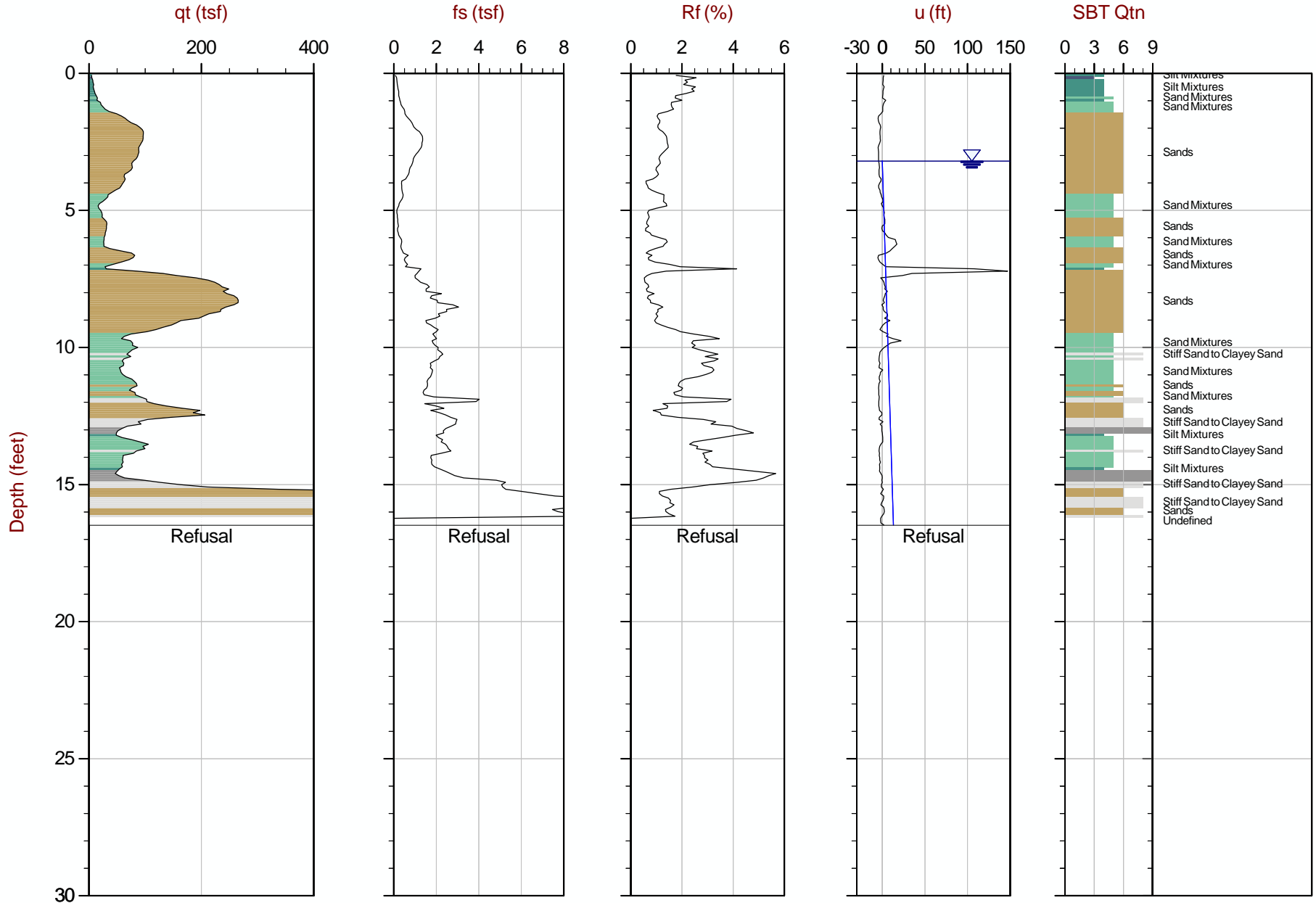
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 12:53  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-371  
Cone: 606:T1500F15U35



Max Depth: 5.025 m / 16.49 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-371.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782809m E: 405685m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

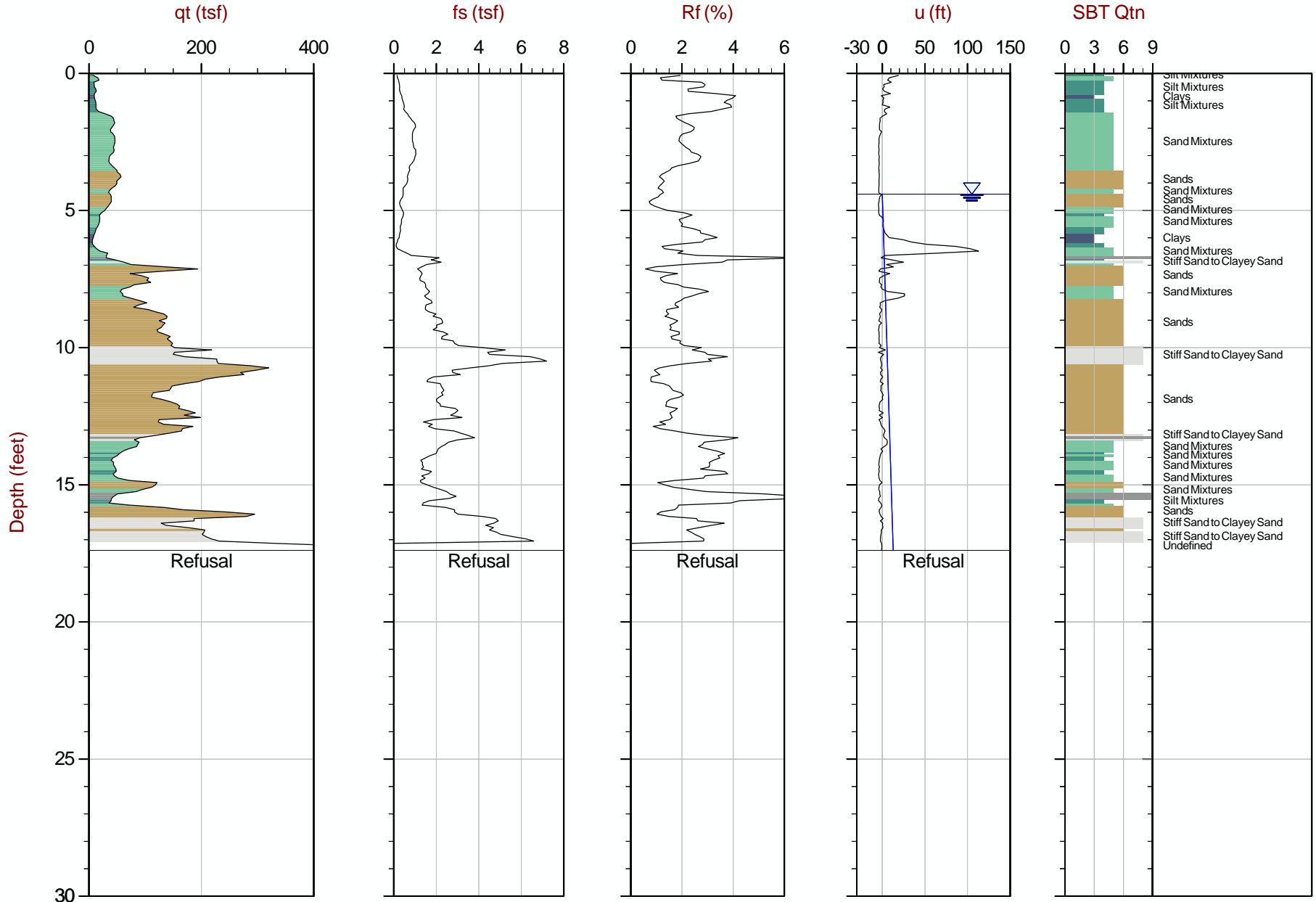
Job No: 23-53-26729

Date: 2023-10-28 13:25

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-372

Cone: 606:T1500F15U35



Max Depth: 5.300 m / 17.39 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-372.COR  
Unit Wt: SBTQtn(PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782756m E: 405814m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

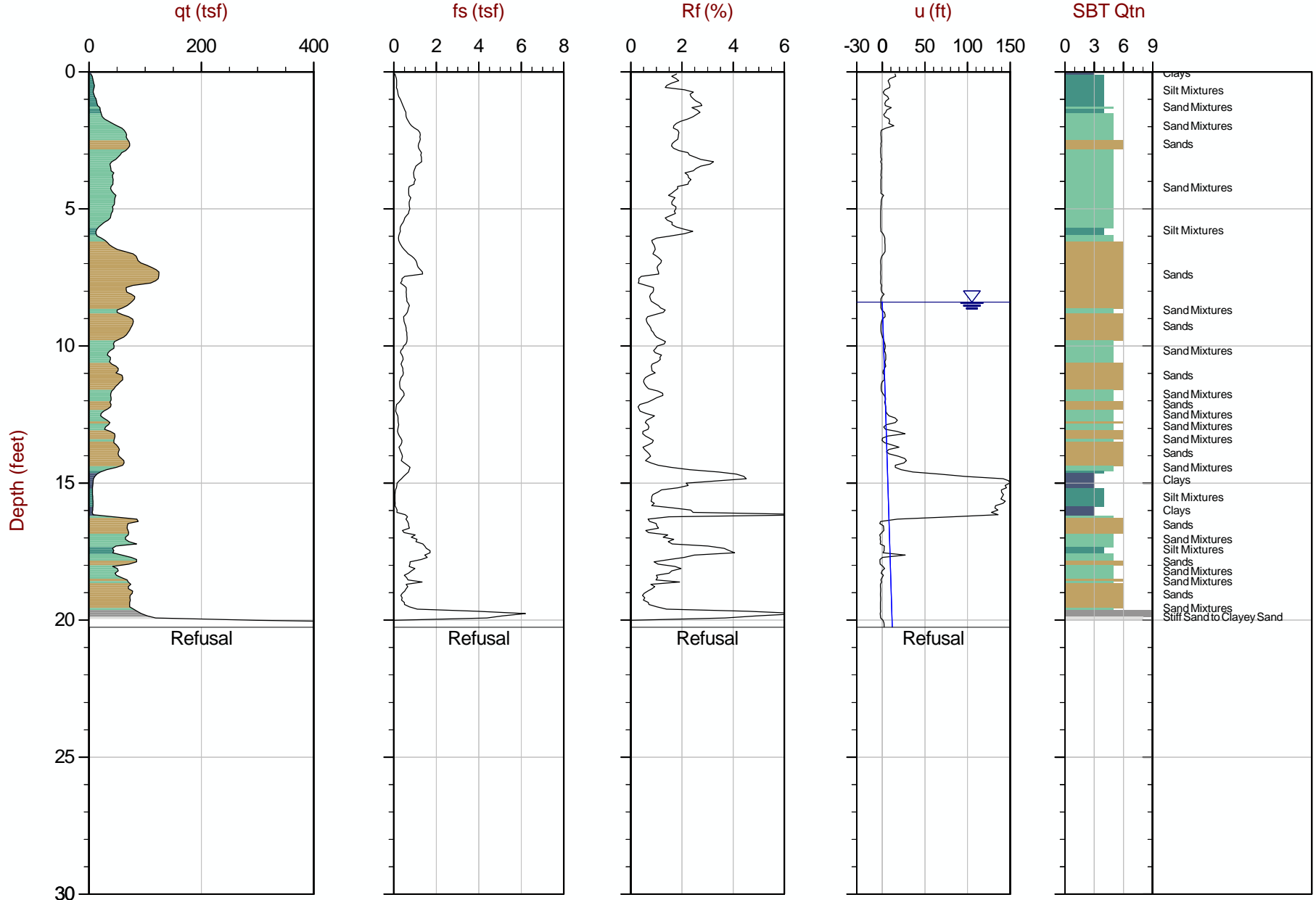
Job No: 23-53-26729

Date: 2023-10-28 12:15

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-381

Cone: 606:T1500F15U35



Max Depth: 6.175 m / 20.26 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-381.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782851m E: 405725m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

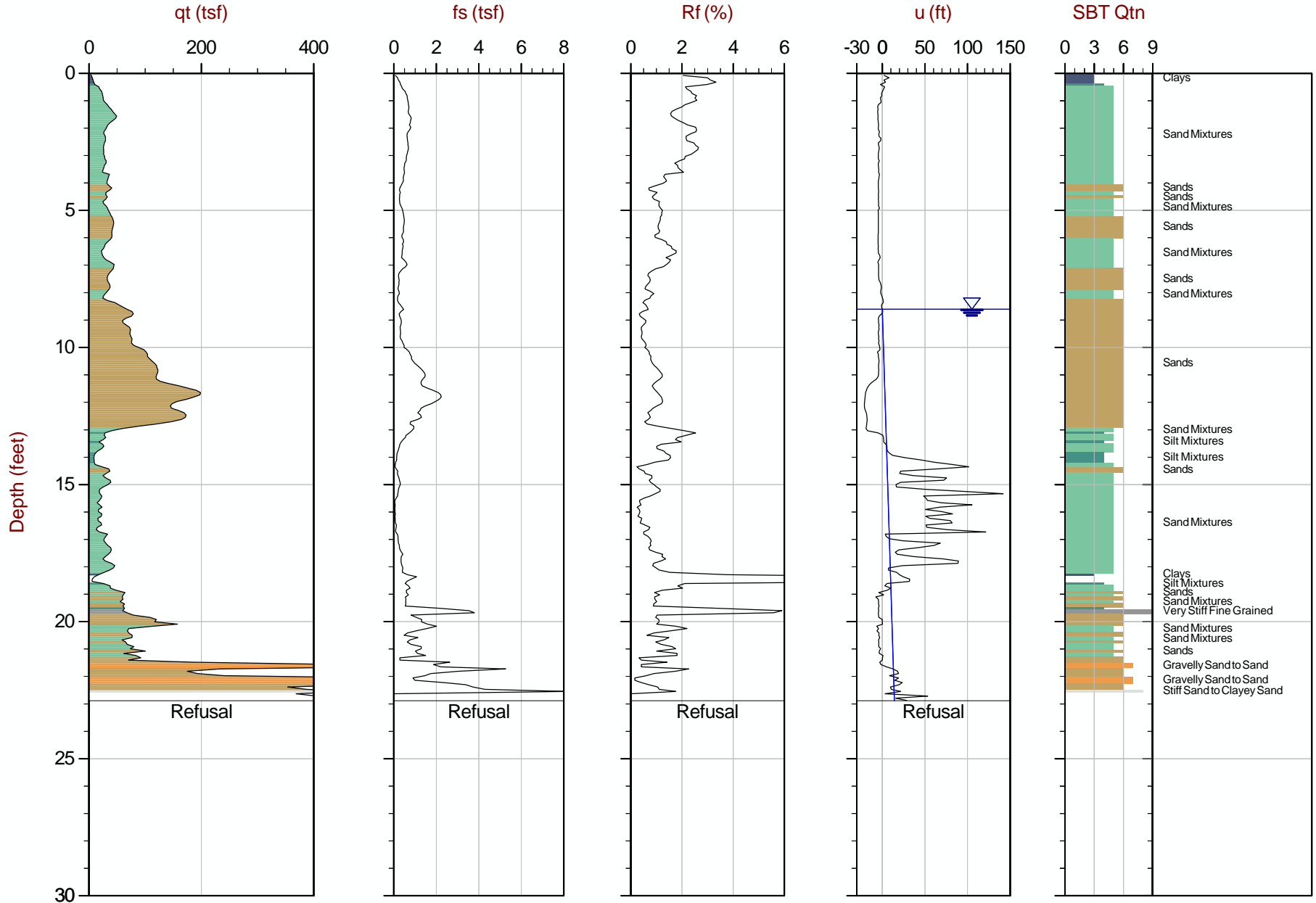
Job No: 23-53-26729

Date: 2023-10-28 13:56

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-383

Cone: 606:T1500F15U35



Max Depth: 6.975 m / 22.88 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-383.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782758m E: 405878m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



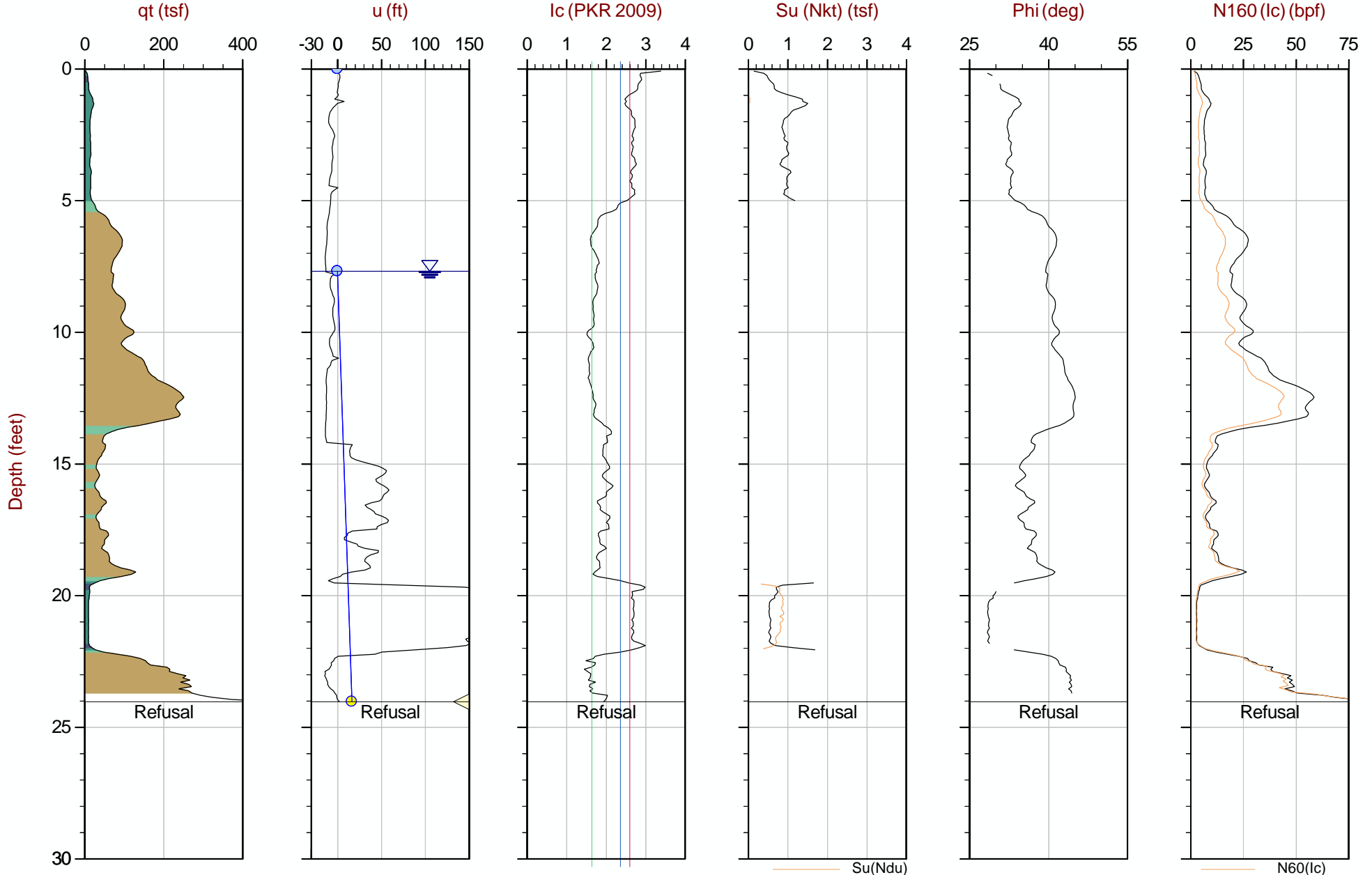
## **Advanced Cone Penetration Test Plots**



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 12:03  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-004  
Cone: 604:T1500F15U35



Max Depth: 7.325 m / 24.03 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-004.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783255m E: 405402m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◀ PPD, Ueq achieved ◁ PPD, Ueq not achieved

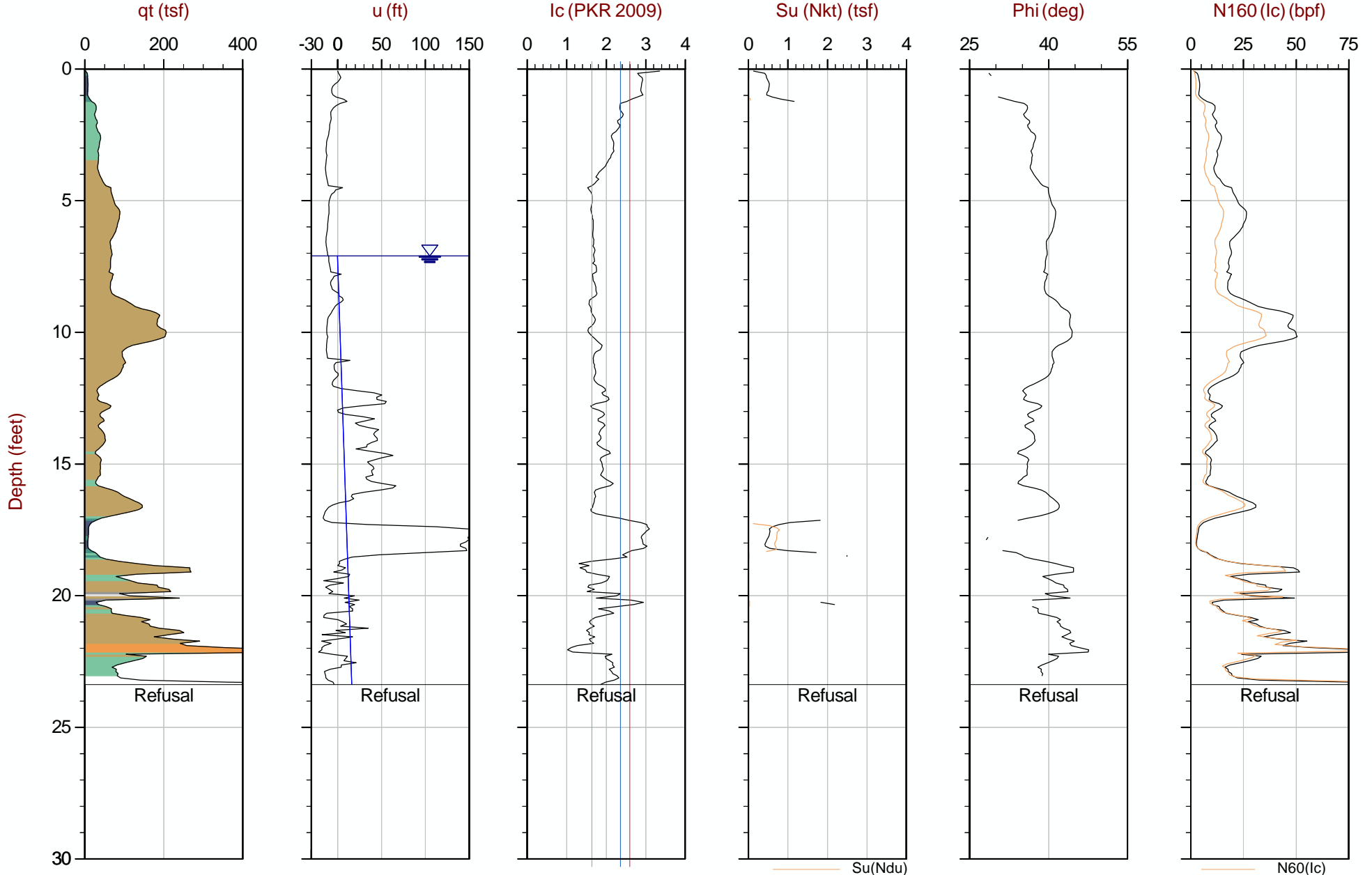
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 12:43  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-006  
Cone: 604:T1500F15U35



Max Depth: 7.125 m / 23.38 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-006.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783259m E: 405526m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◁ PPD, Ueq achieved ◀ PPD, Ueq not achieved

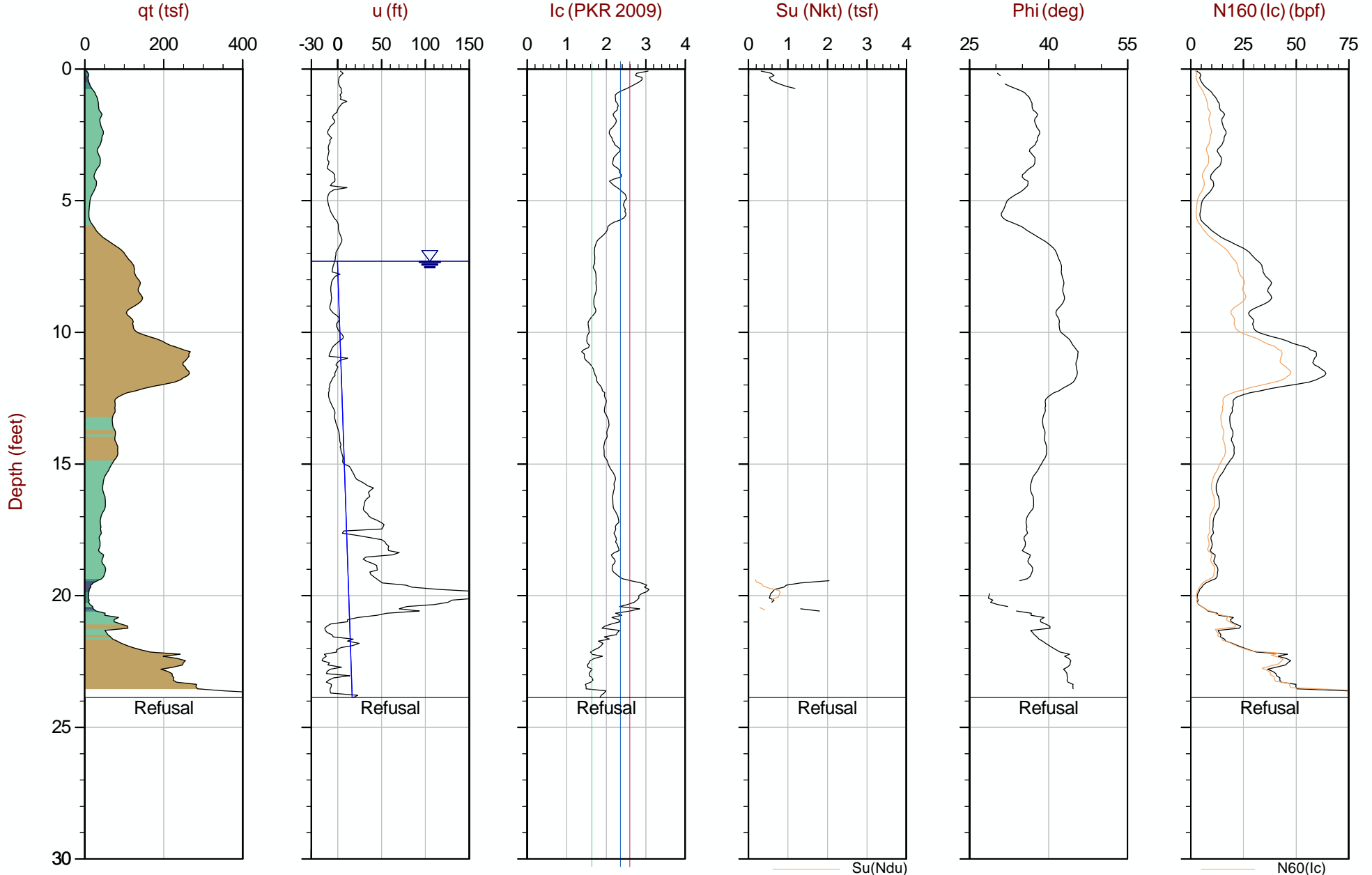
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 10:45  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-008  
Cone: 604:T1500F15U35



Max Depth: 7.275 m / 23.87 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-008.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783184m E: 405225m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◁ PPD, Ueq achieved ▷ PPD, Ueq not achieved

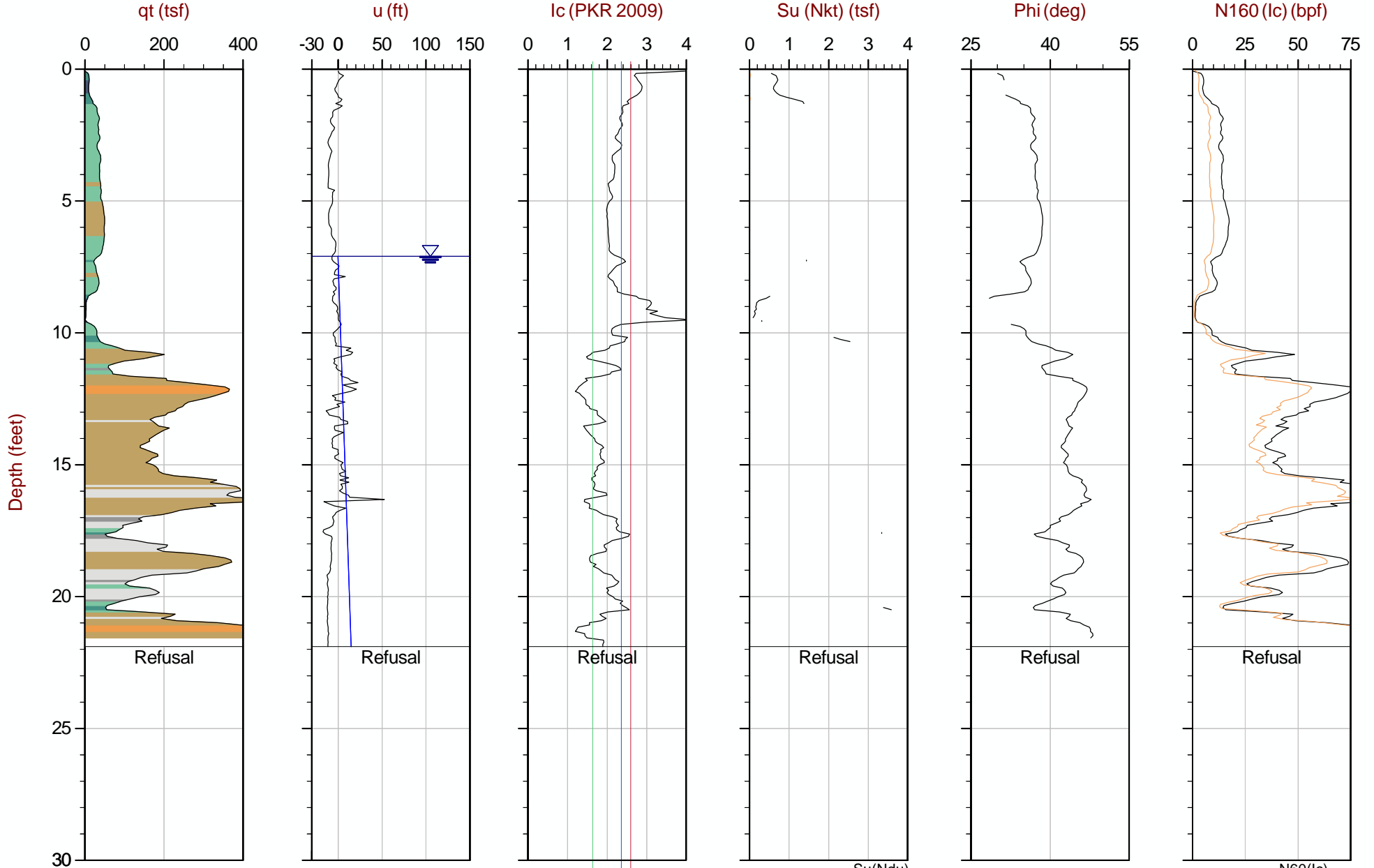
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 15:20  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-014  
Cone: 604:T1500F15U35



Max Depth: 6.675 m / 21.90 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-014.COR  
Unit Wt: SBTQtn (PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783216m E: 405656m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◀ PPD, Ueq achieved ◁ PPD, Ueq not achieved

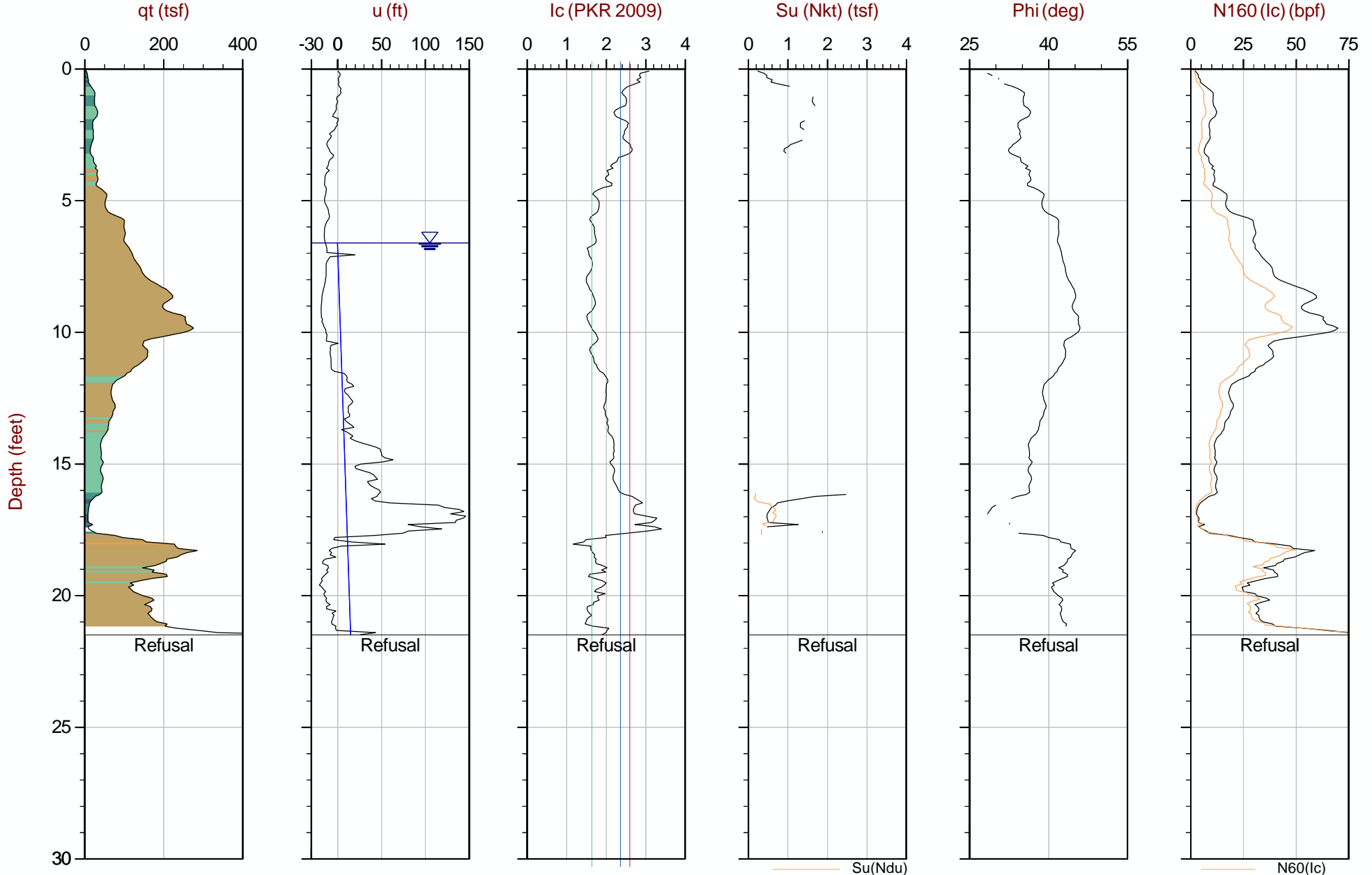
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 11:24  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-016  
Cone: 604:T1500F15U35



Max Depth: 6.550 m / 21.49 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-016.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783123m E: 405290m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◁ PPD, Ueq achieved ◀ PPD, Ueq not achieved

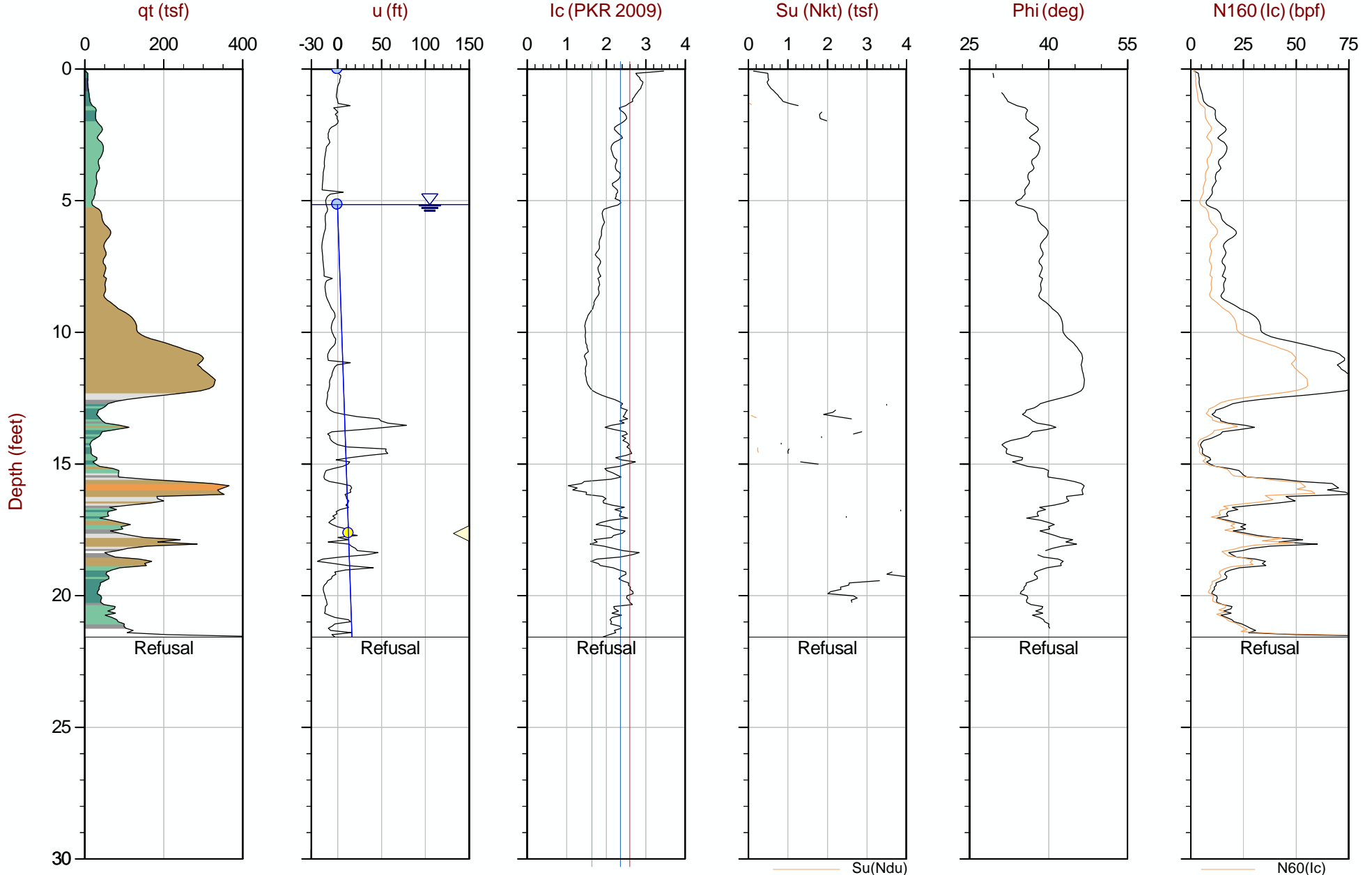
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 09:58  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-021  
Cone: 604:T1500F15U35



Max Depth: 6.575 m / 21.57 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-021.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783063m E: 405235m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◁ PPD, Ueq achieved ▷ PPD, Ueq not achieved

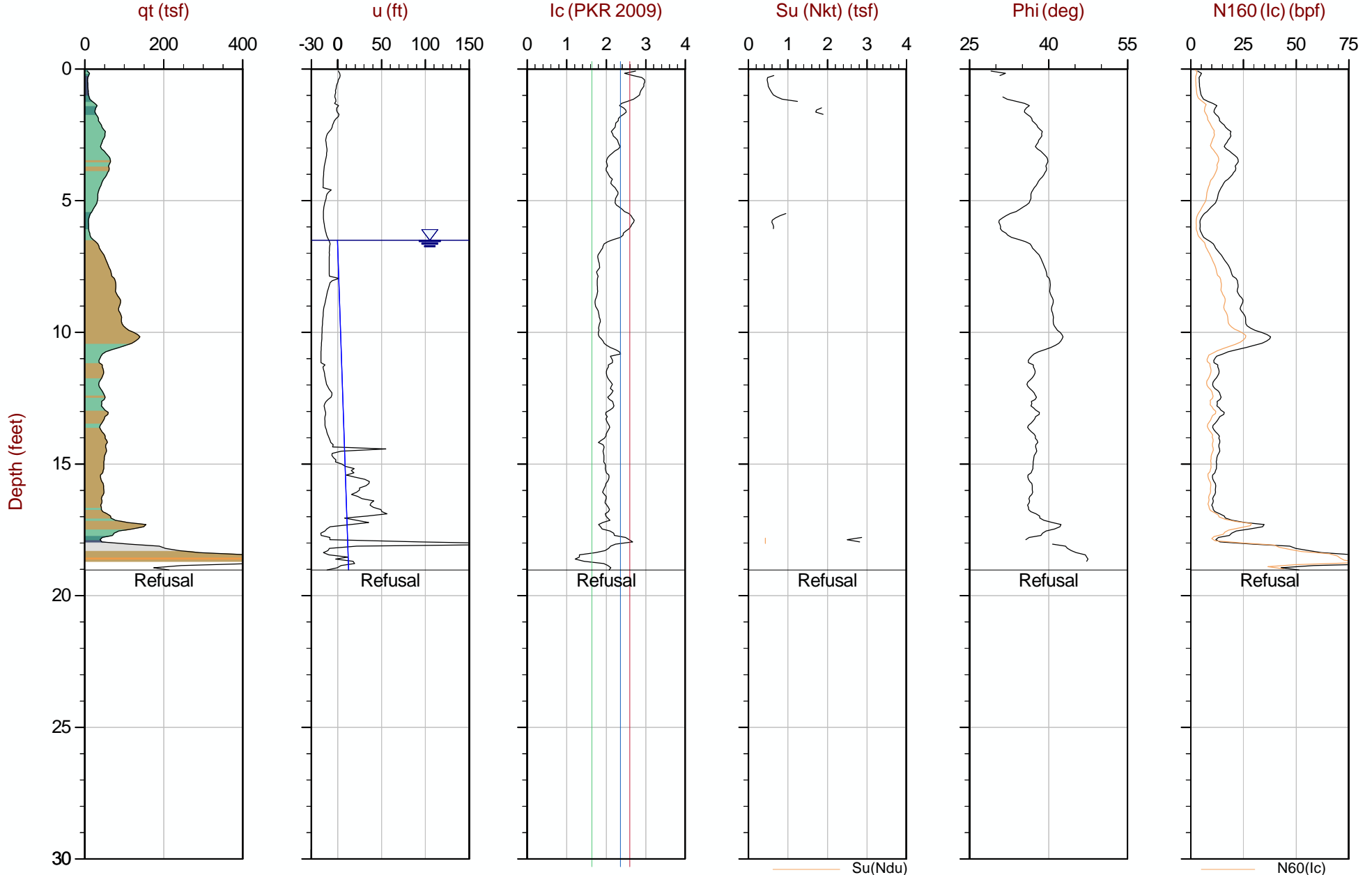
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 14:36  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-022  
Cone: 604:T1500F15U35



Max Depth: 5.800 m / 19.03 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-022.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783076m E: 405537m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◀ PPD, Ueq achieved ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

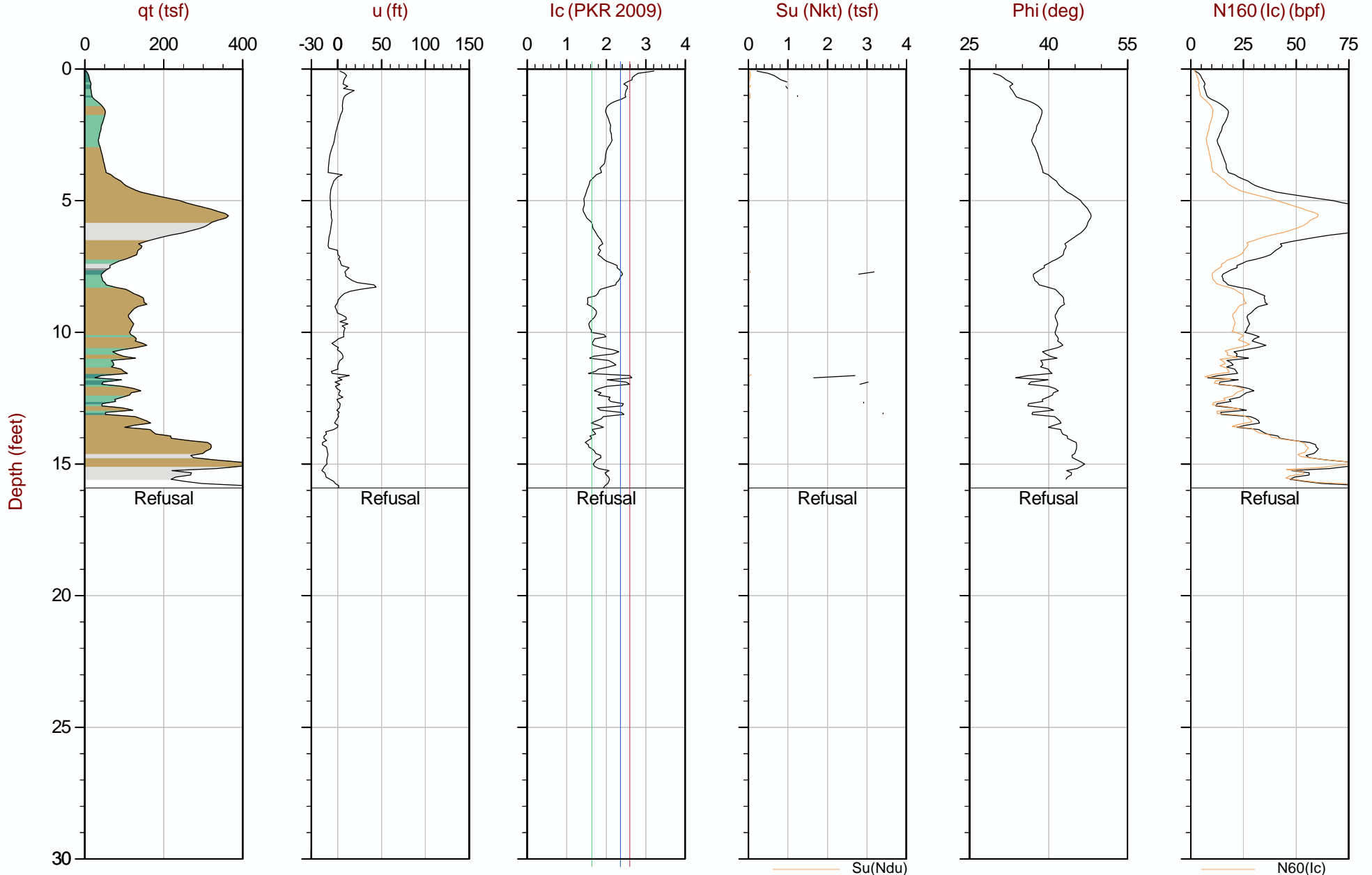




**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 13:10  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-060  
Cone: 604:T1500F15U35



Max Depth: 4.850 m / 15.91 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-060.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782561m E: 405685m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

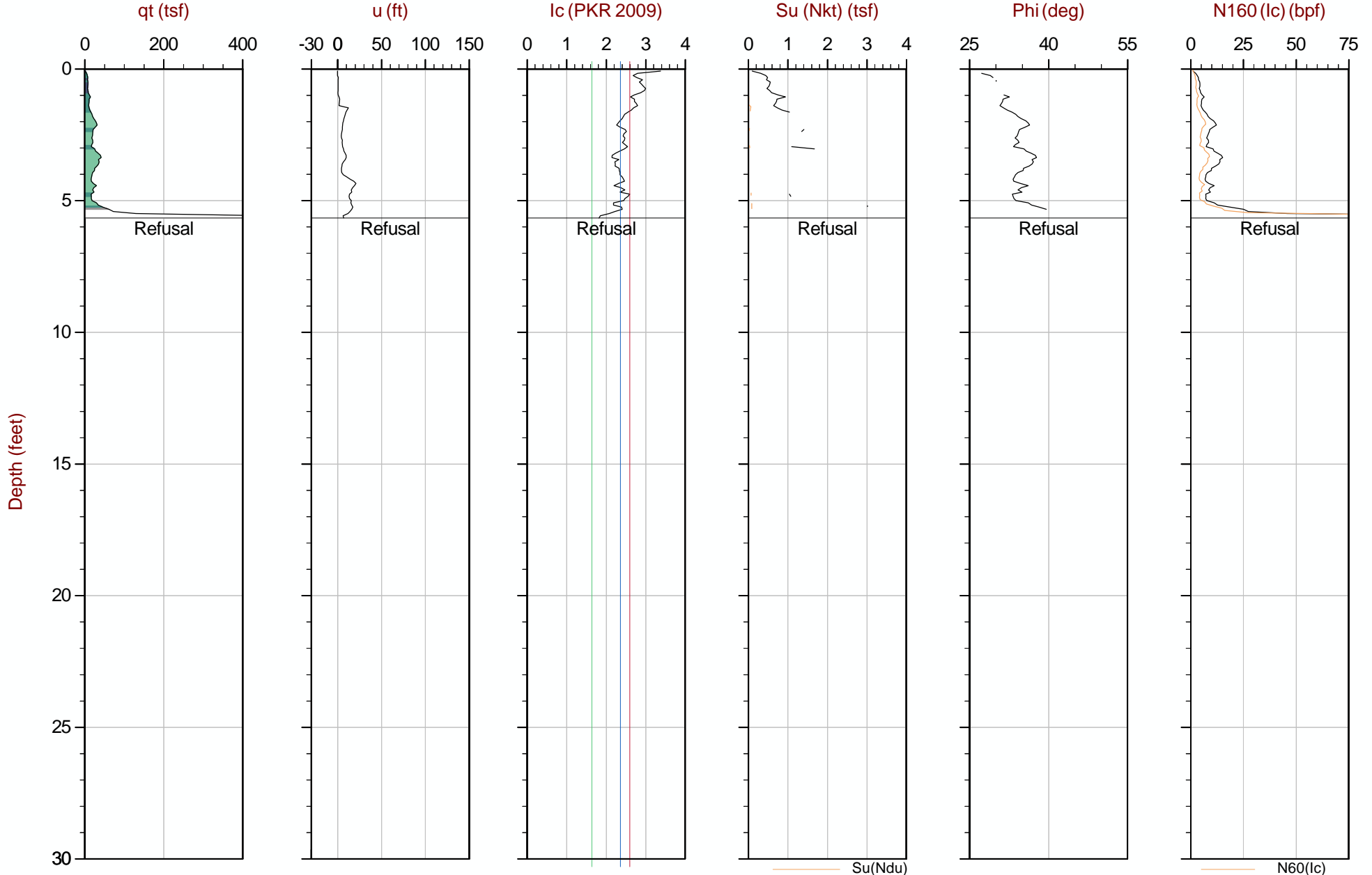
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 09:05  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-064  
Cone: 604:T1500F15U35



Max Depth: 1.725 m / 5.66 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-064.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782566m E: 405331m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

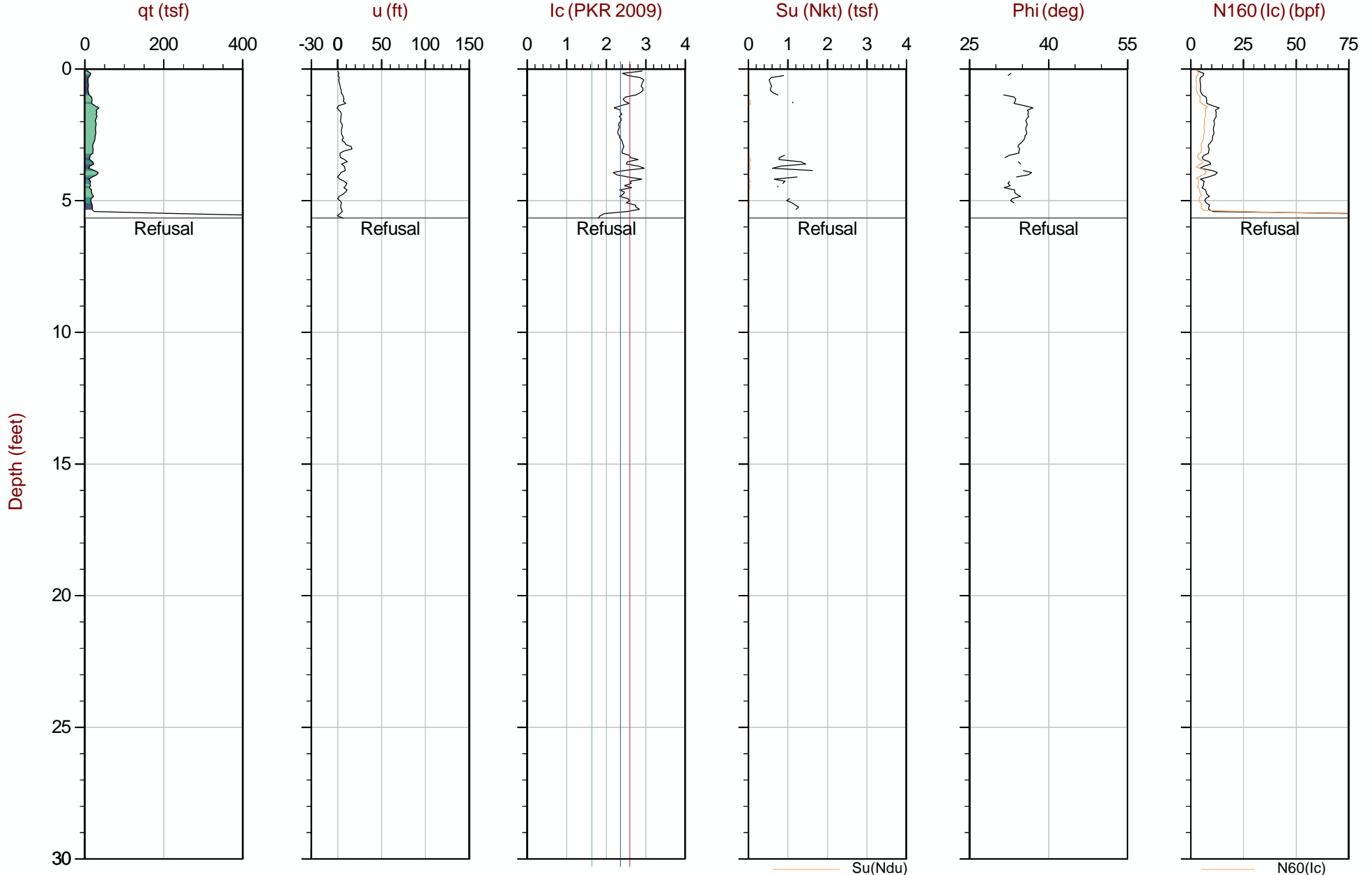
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 09:29  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-064A  
Cone: 604:T1500F15U35



Max Depth: 1.725 m / 5.66 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-064A.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782574m E: 405430m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

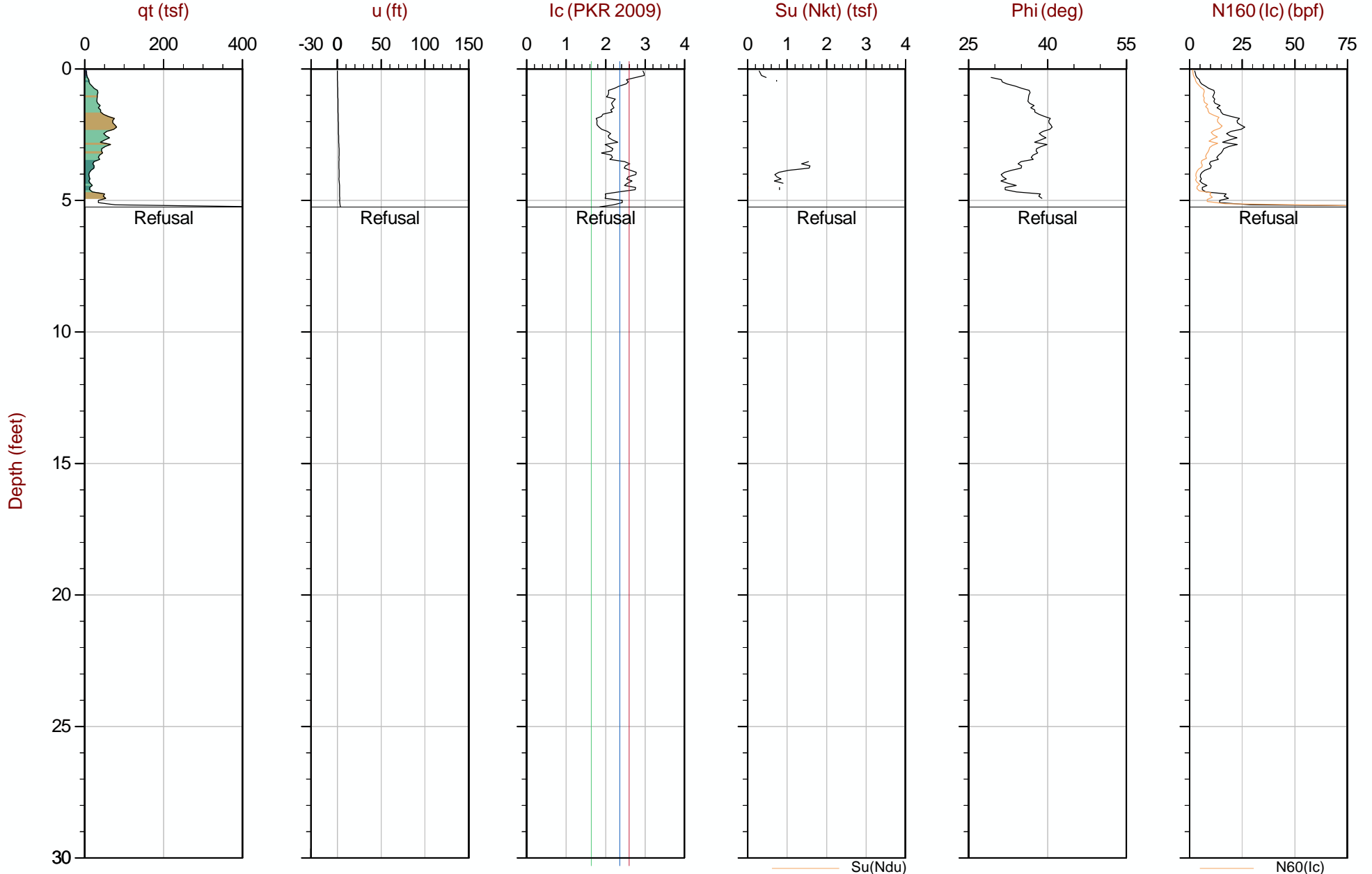
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 07:02  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-066  
Cone: 604:T1500F15U35



Max Depth: 1.600 m / 5.25 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-066.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782577m E: 405304m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

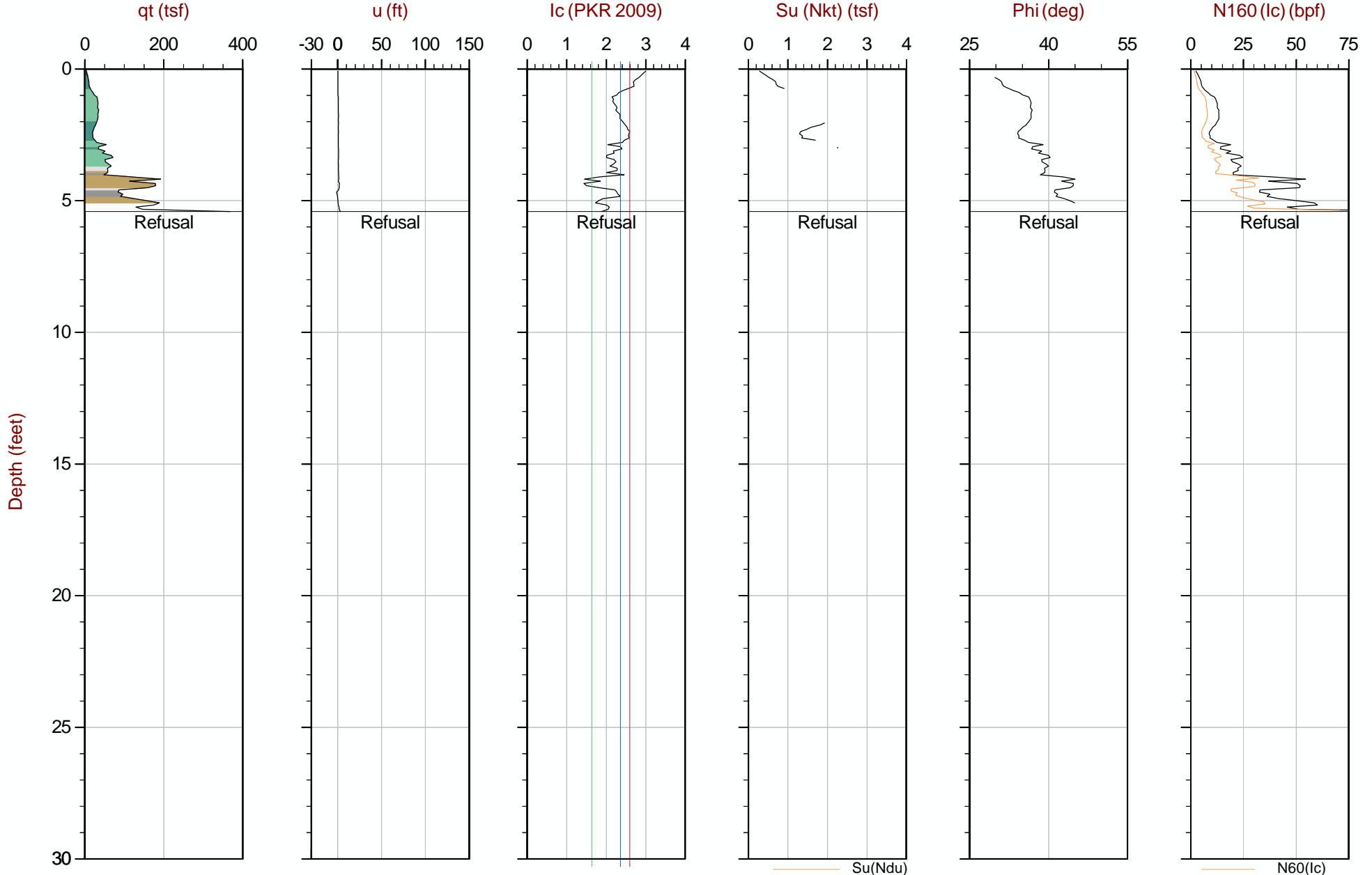
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 08:36  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-066A  
Cone: 604:T1500F15U35



Max Depth: 1.650 m / 5.41 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-066A.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782578m E: 405304m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

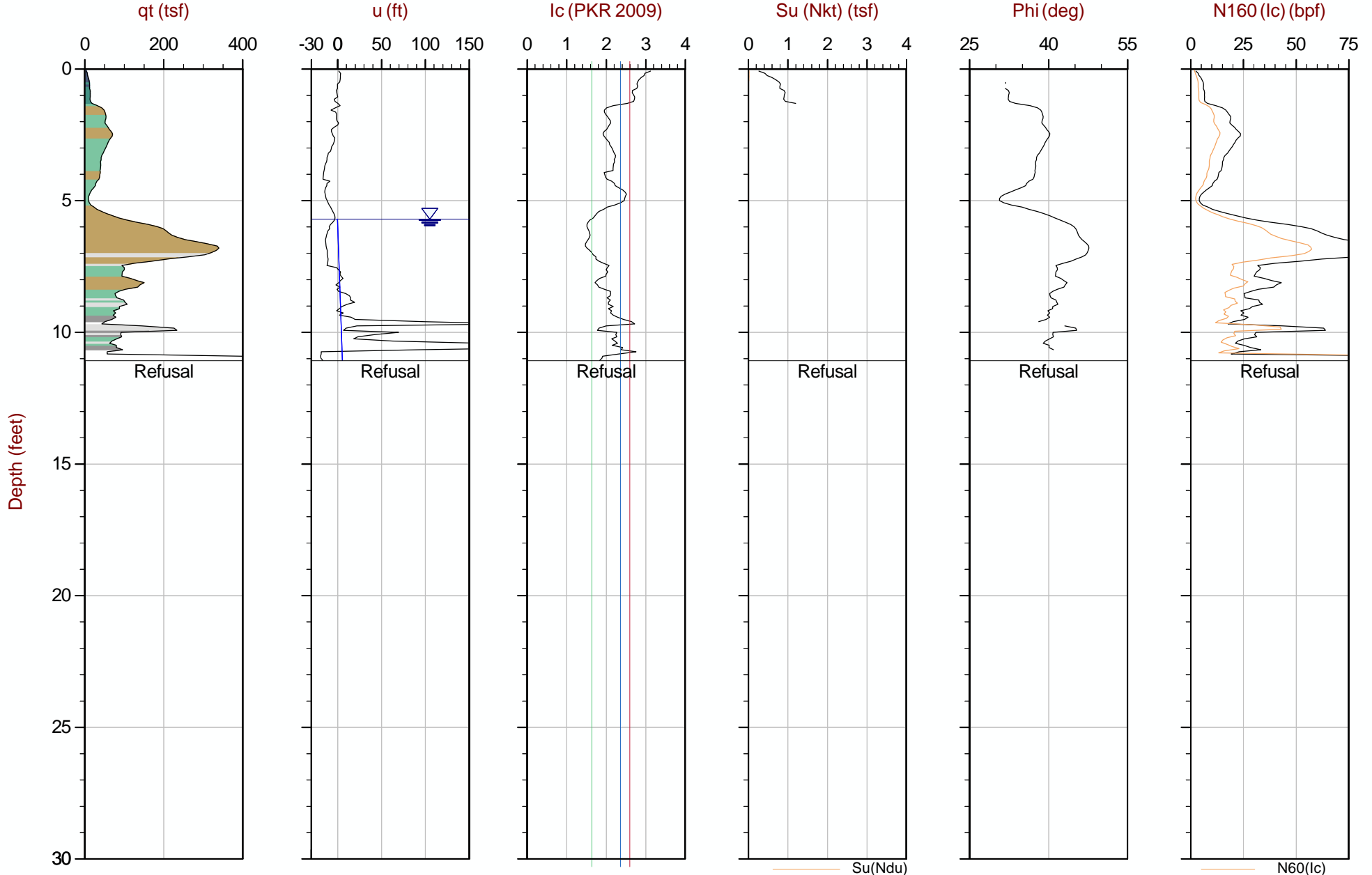
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 13:47  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-070  
Cone: 604:T1500F15U35



Max Depth: 3.375 m / 11.07 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-070.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782528m E: 405678m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◁ PPD, Ueq achieved   ◁ PPD, Ueq not achieved

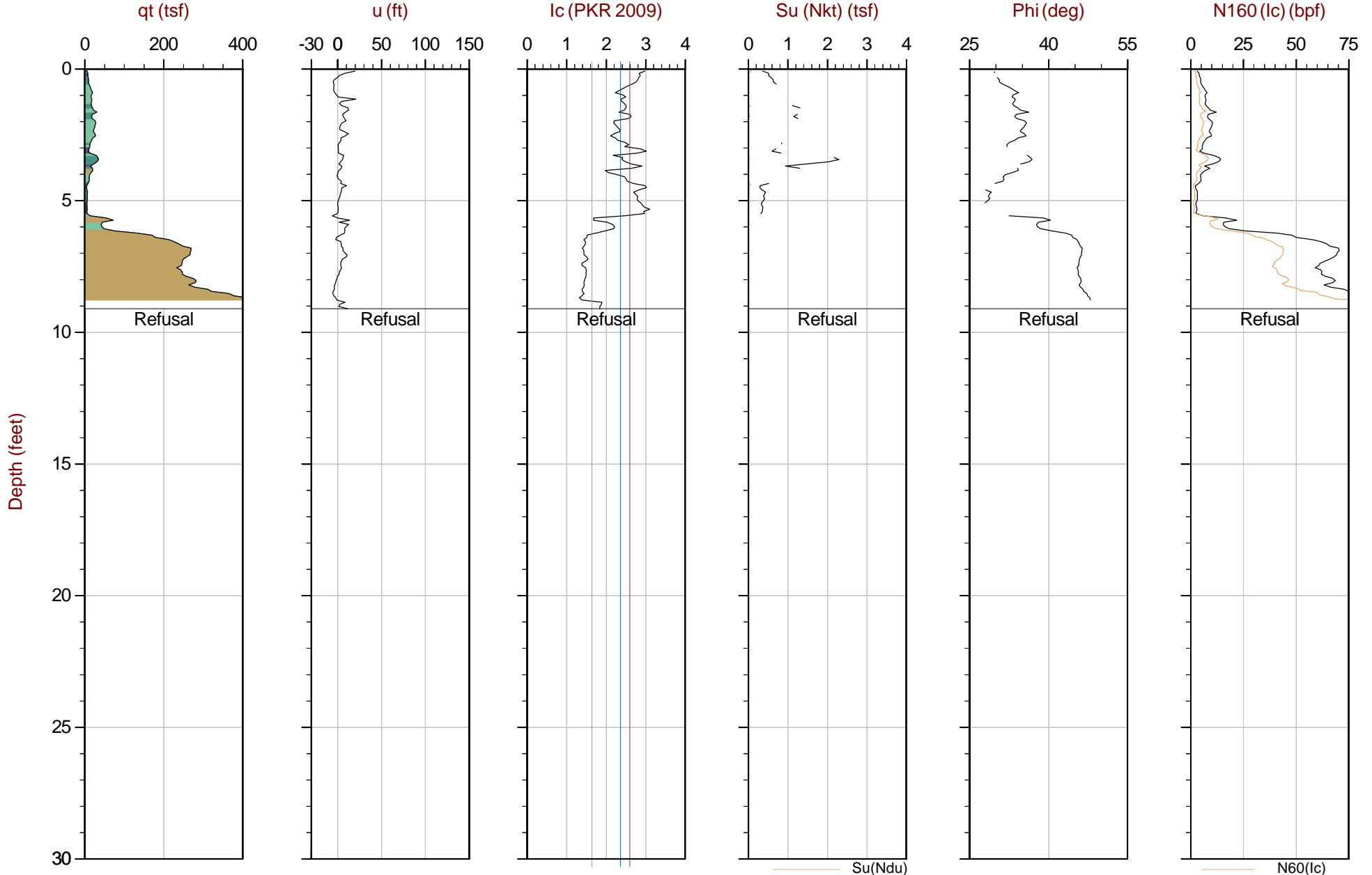
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 10:47  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-073  
Cone: 604:T1500F15U35



Max Depth: 2.775 m / 9.10 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-073.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782536m E: 405496m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

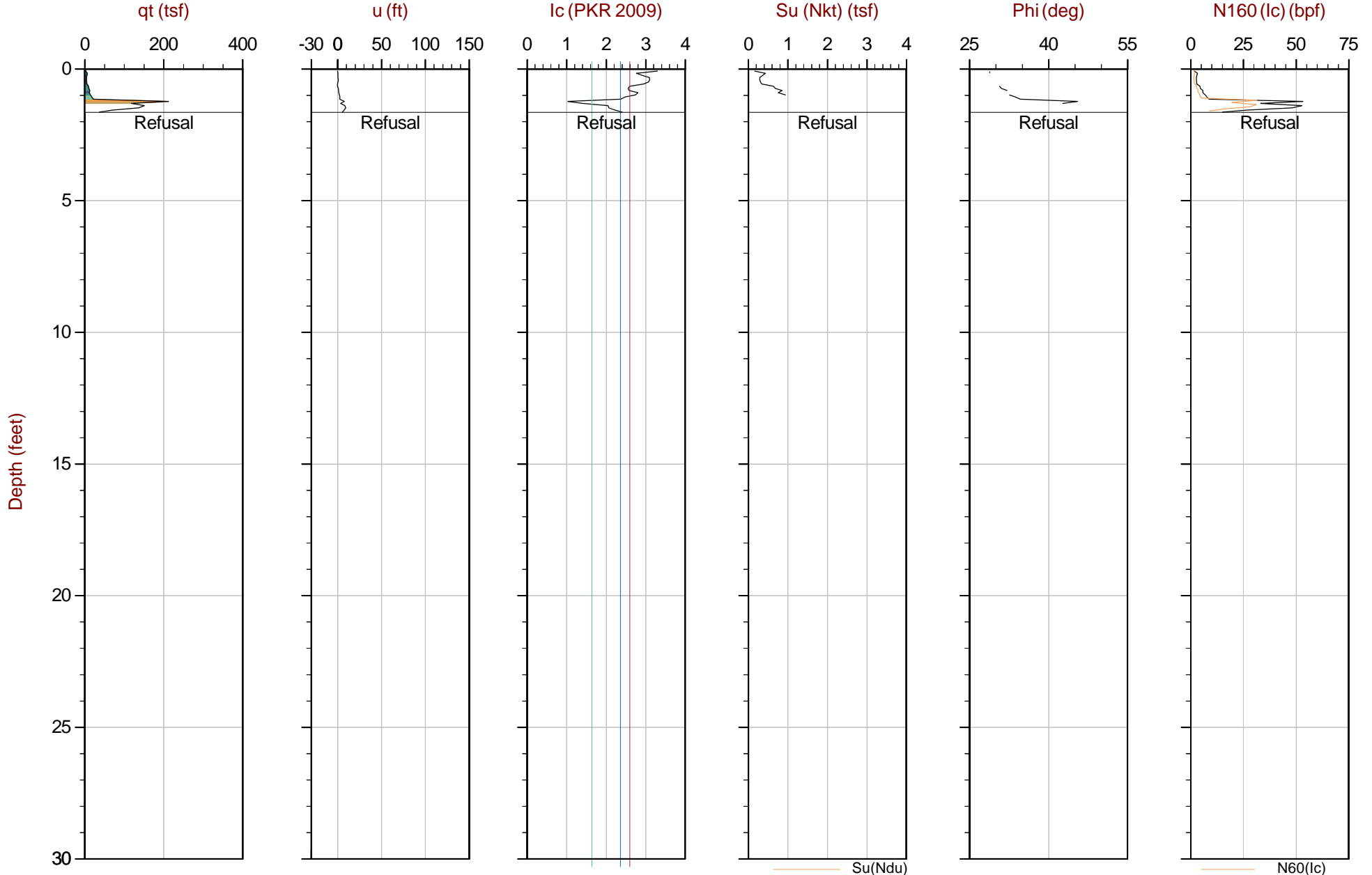
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 09:58  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-074  
Cone: 604:T1500F15U35



Max Depth: 0.500 m / 1.64 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-074.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782535m E: 405441m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

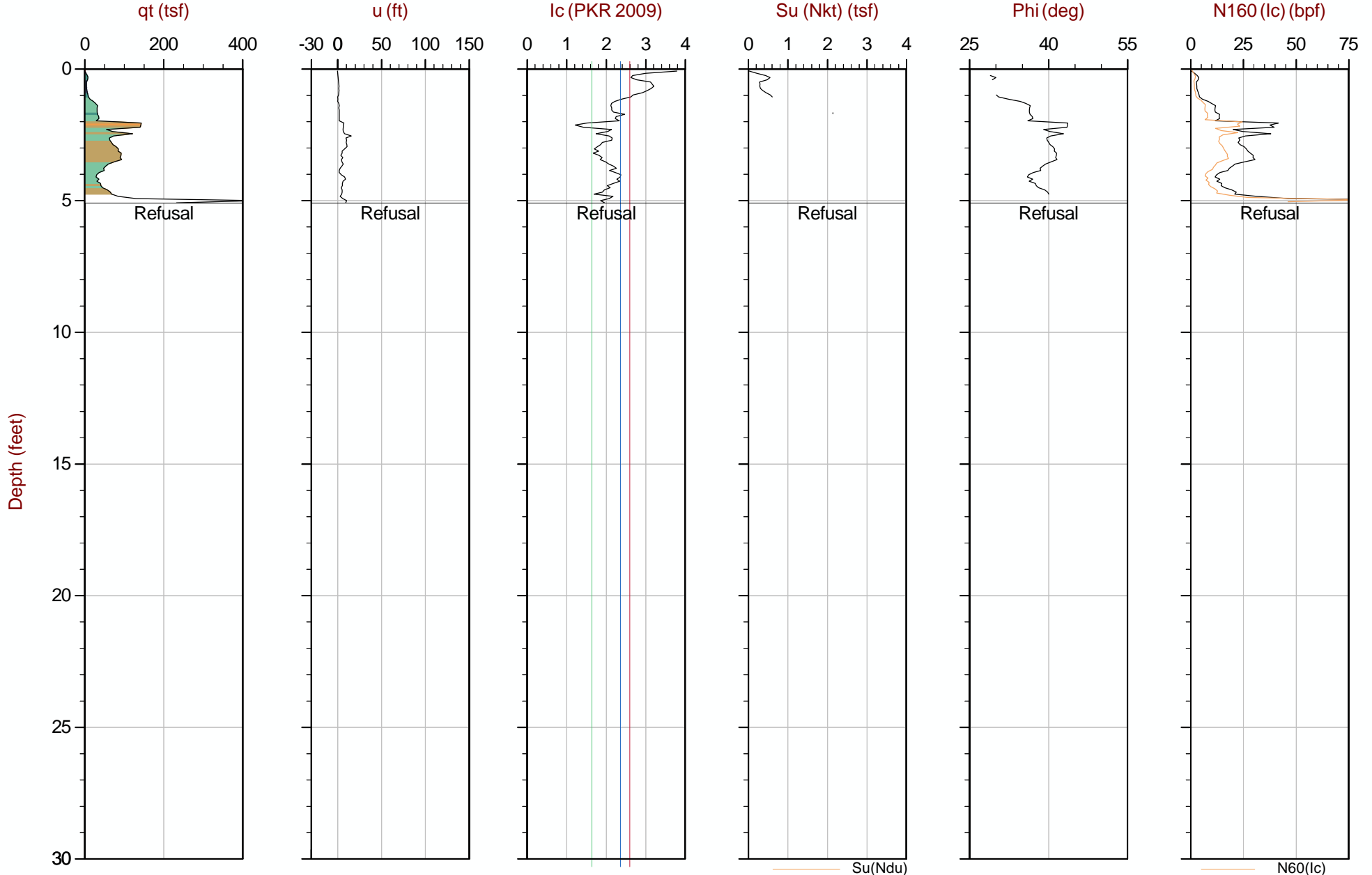




**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 10:17  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-074A  
Cone: 604:T1500F15U35



Max Depth: 1.550 m / 5.09 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-074A.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782536m E: 405438m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

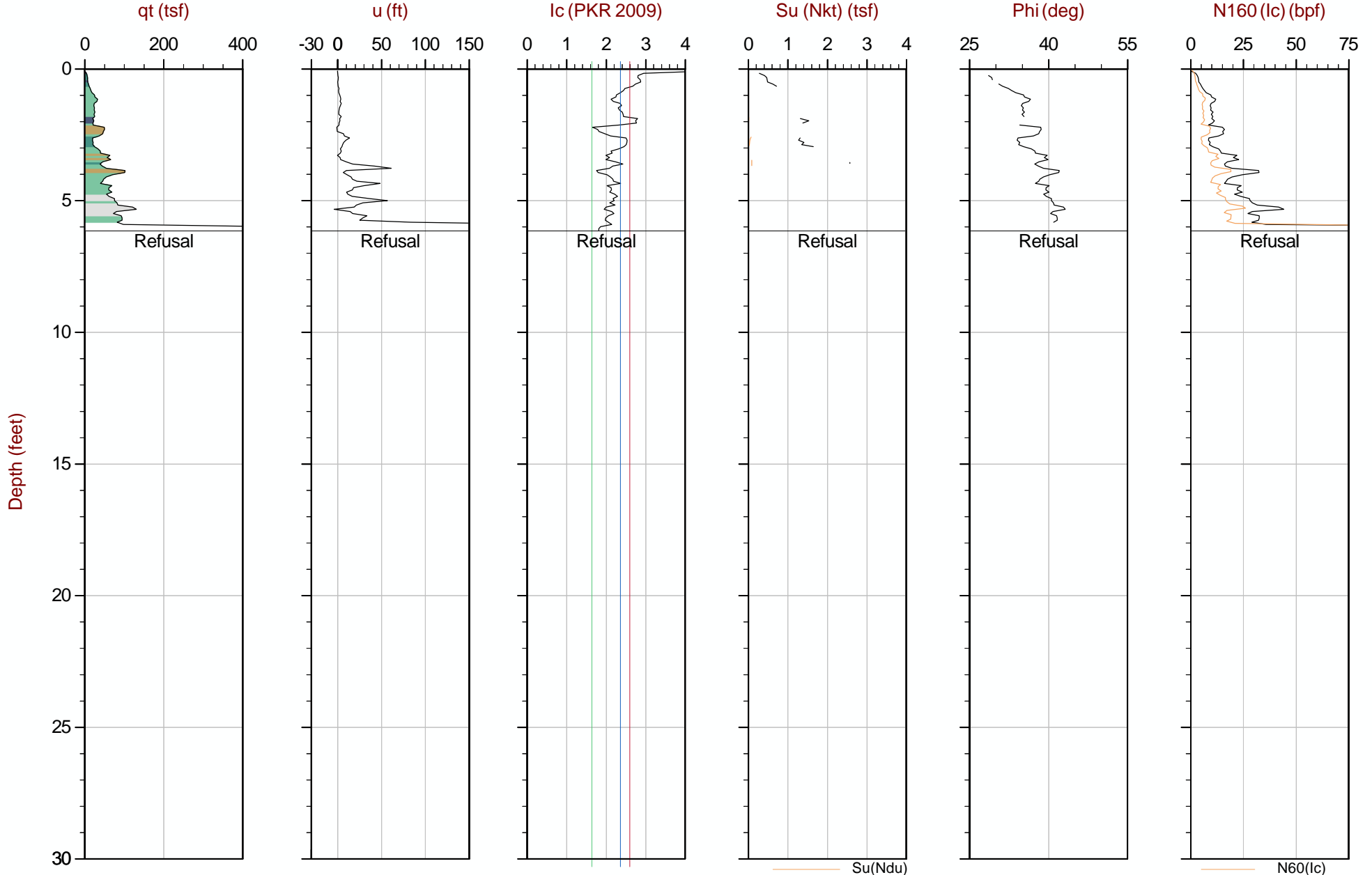
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 11:10  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-075  
Cone: 604:T1500F15U35



Max Depth: 1.875 m / 6.15 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-075.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782534m E: 405362m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

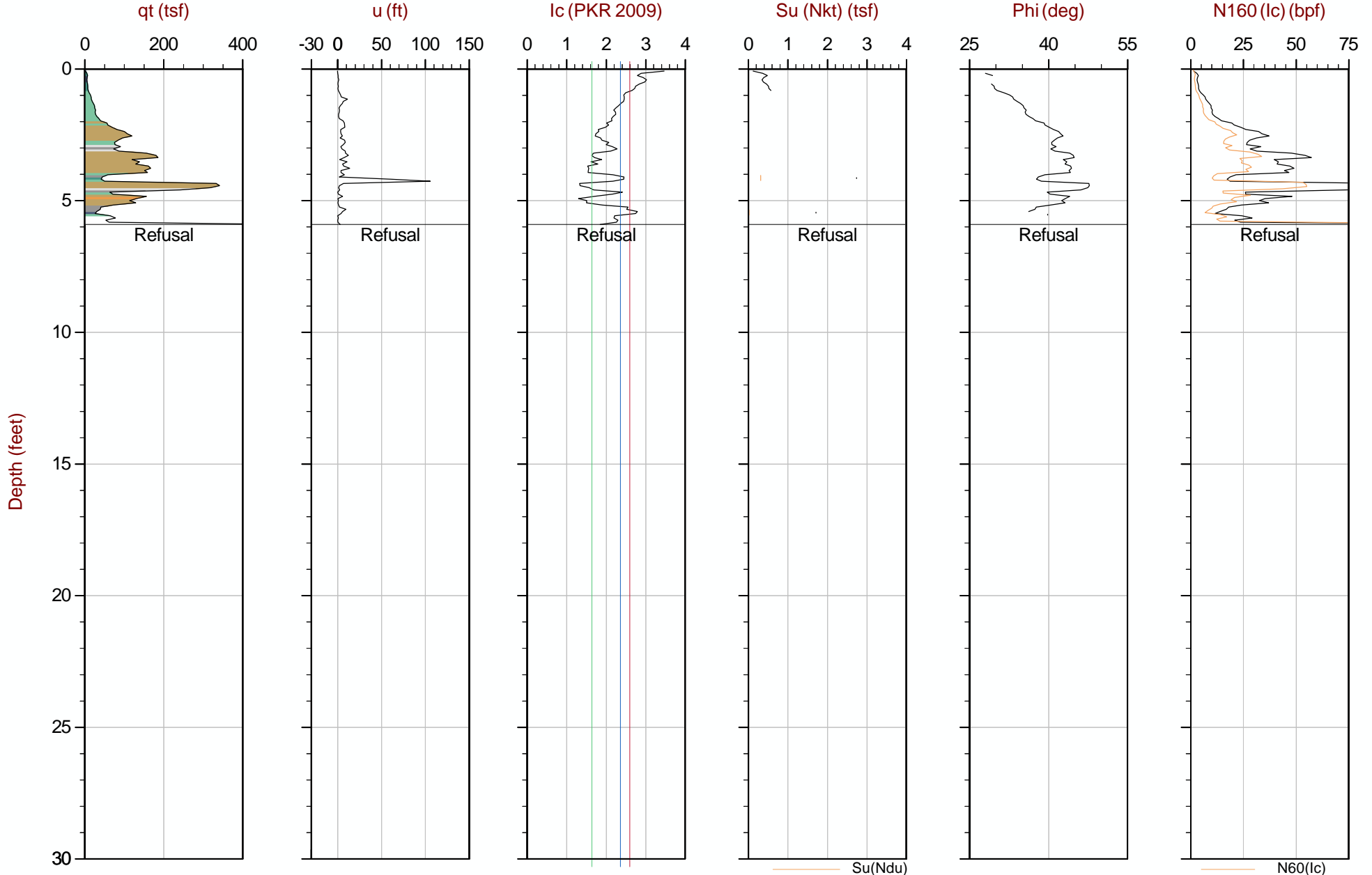
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 11:37  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-076  
Cone: 604:T1500F15U35



Max Depth: 1.800 m / 5.91 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-076.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782537m E: 405311m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

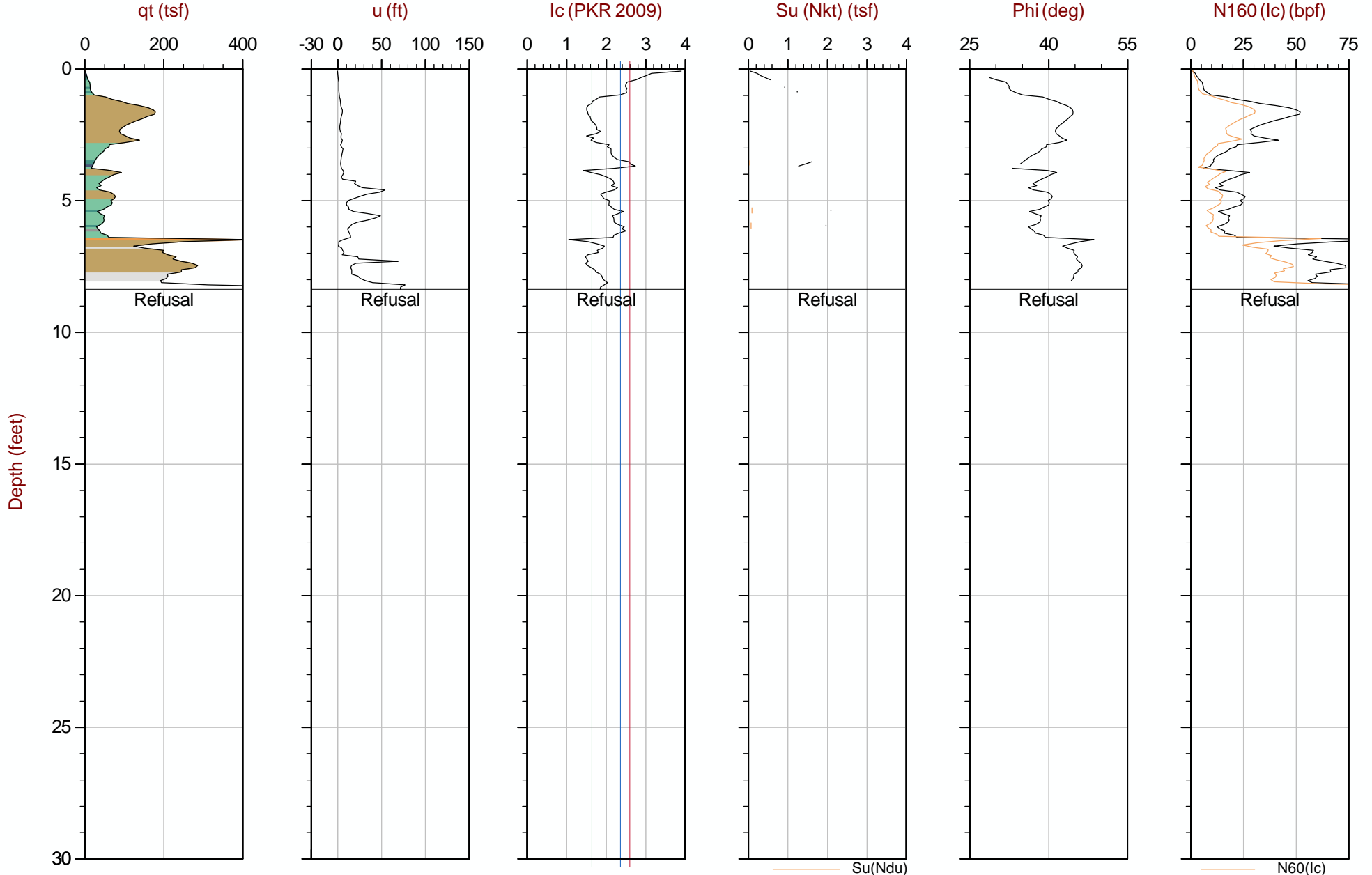
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 12:06  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-077  
Cone: 604:T1500F15U35



Max Depth: 2.550 m / 8.37 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-077.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782533m E: 405264m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

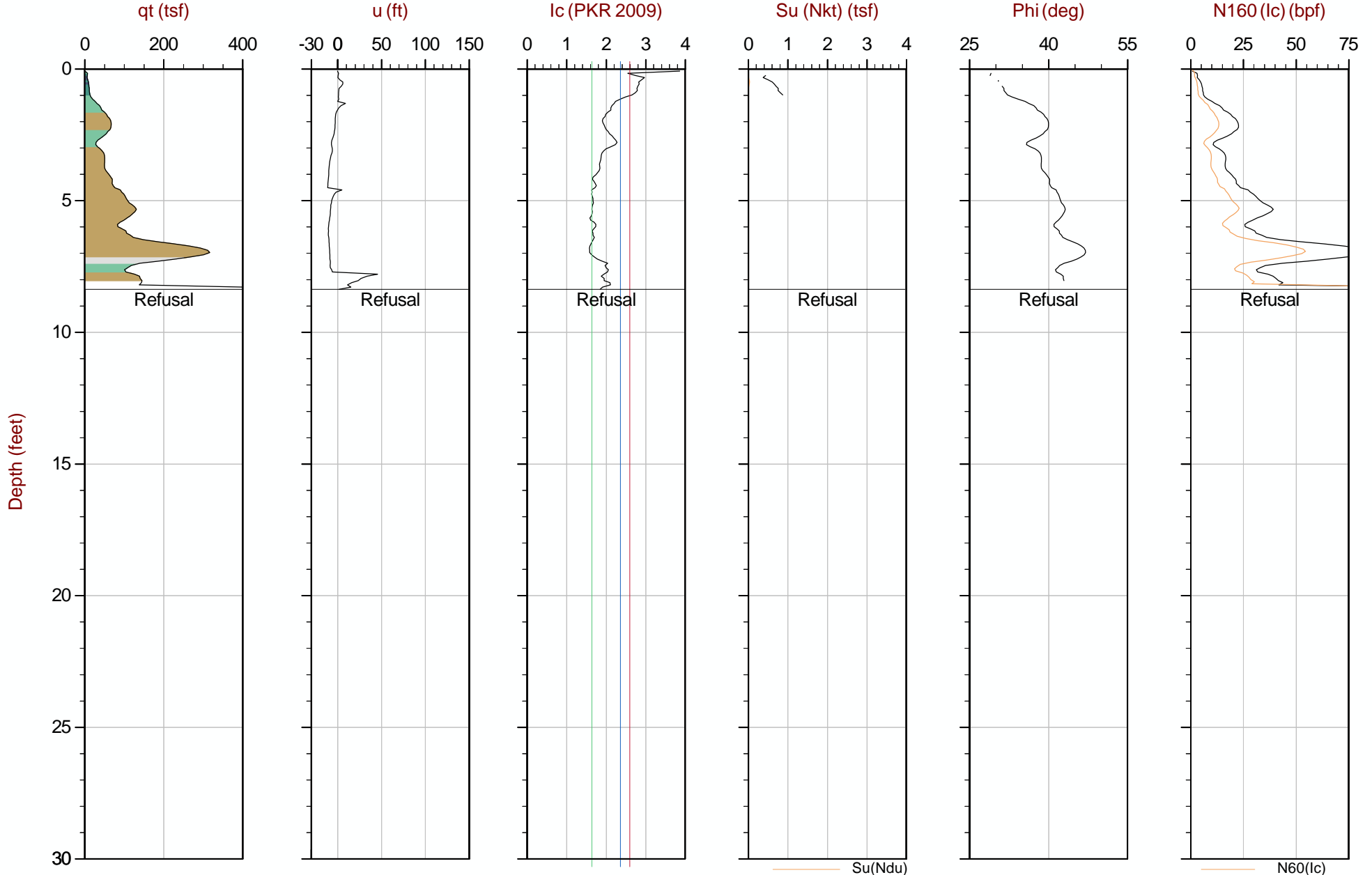
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 07:29  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-078  
Cone: 604:T1500F15U35



Max Depth: 2.550 m / 8.37 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-078.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782533m E: 405733m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

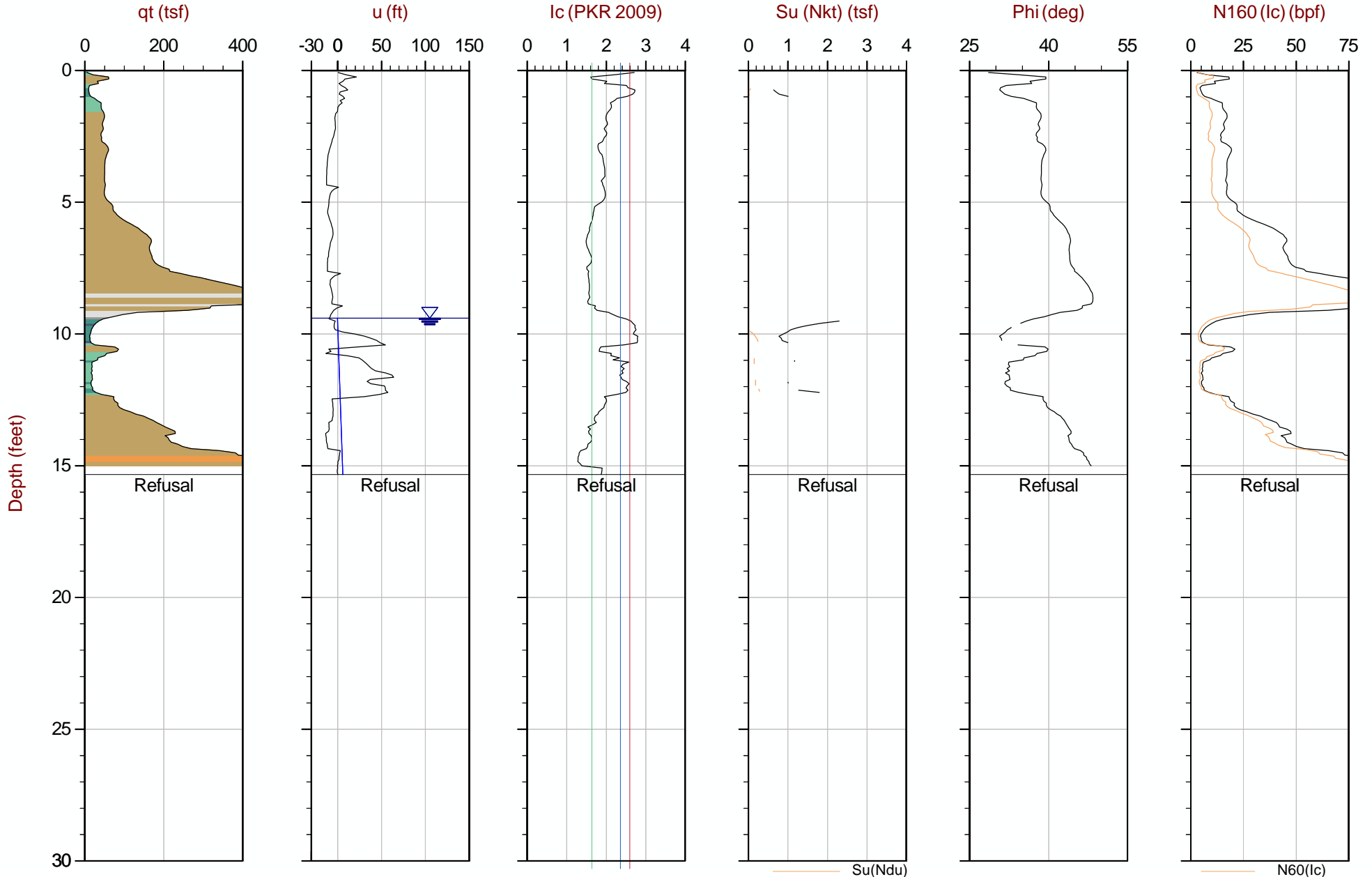
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 14:26  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-080  
Cone: 604:T1500F15U35



Max Depth: 4.675 m / 15.34 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-080.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782485m E: 405681m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

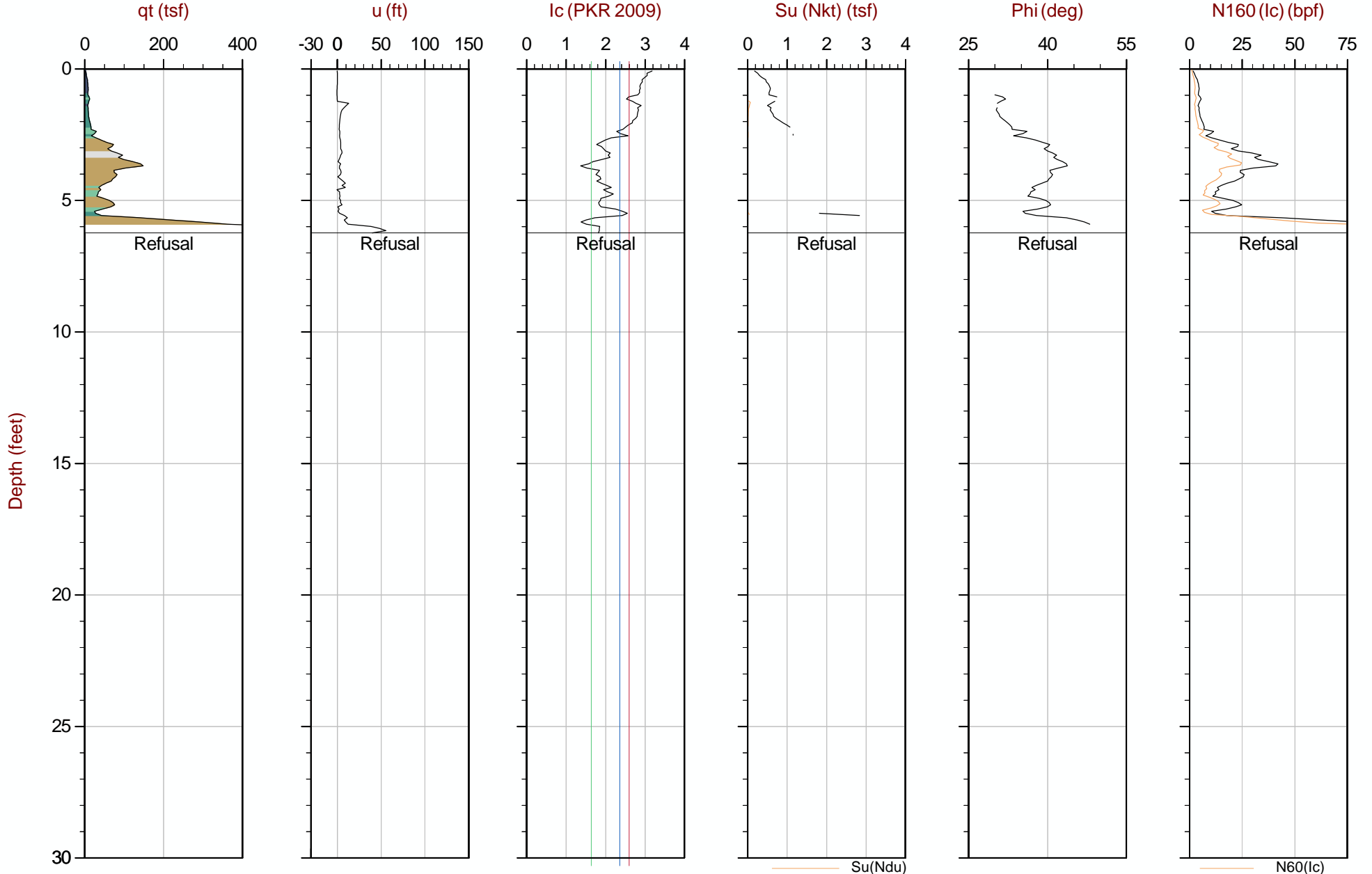
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 13:38  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-084  
Cone: 604:T1500F15U35



Max Depth: 1.900 m / 6.23 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-084.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782502m E: 405427m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◀ PPD, Ueq achieved ◁ PPD, Ueq not achieved

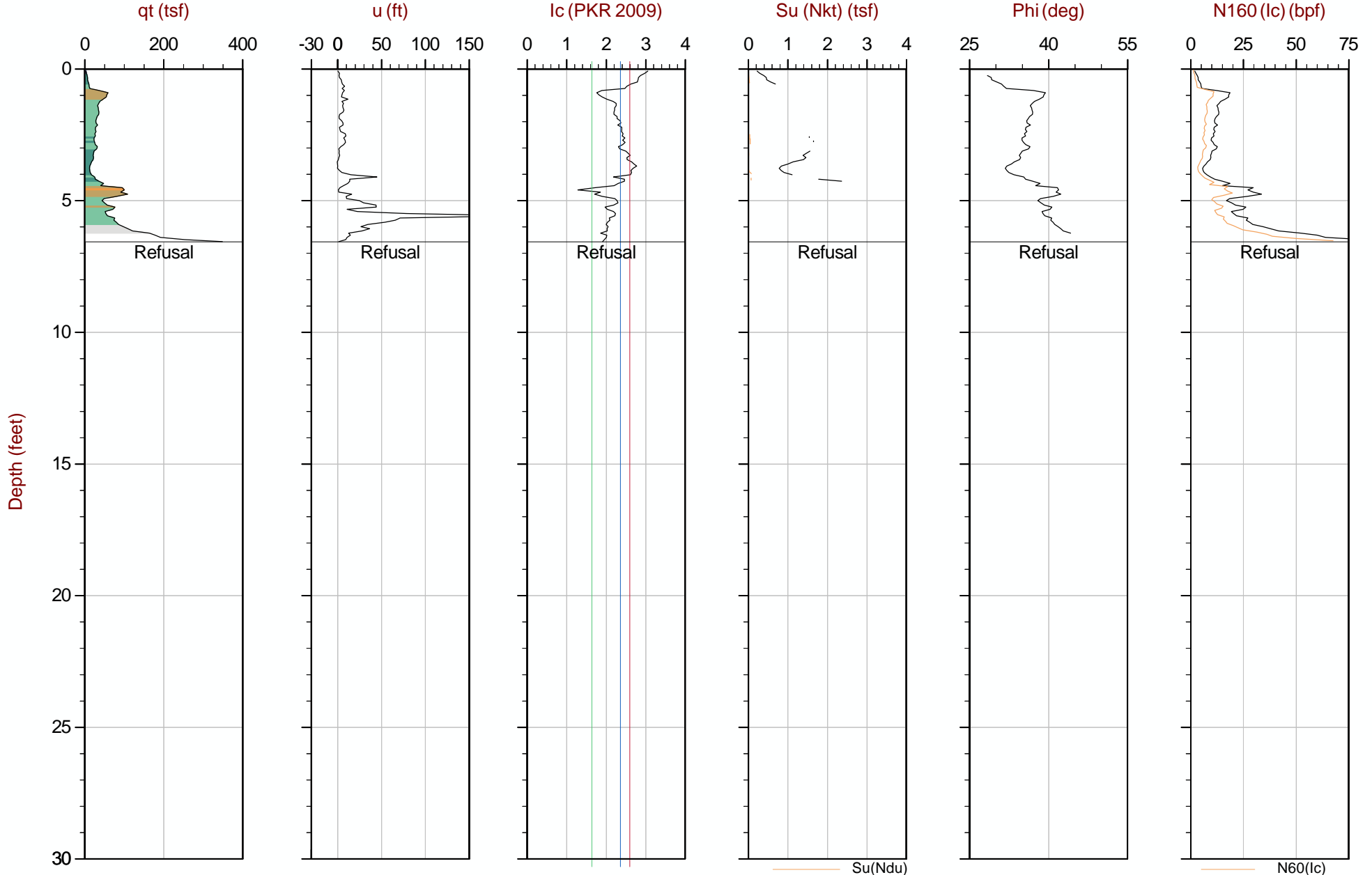
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 12:54  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-086  
Cone: 604:T1500F15U35



Max Depth: 2.000 m / 6.56 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-086.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782506m E: 405306m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

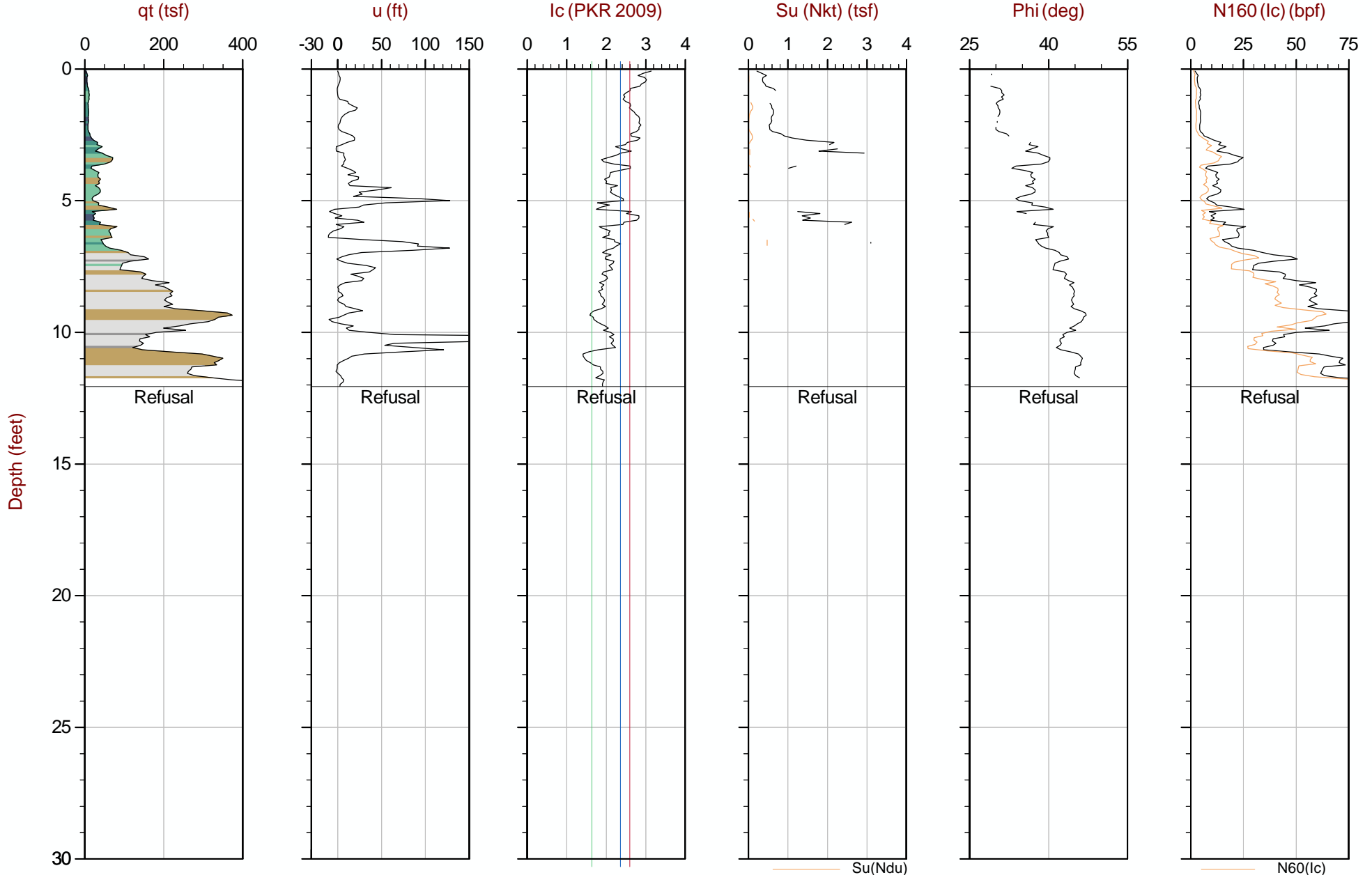




**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 14:25  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-092  
Cone: 604:T1500F15U35



Max Depth: 3.675 m / 12.06 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-092.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782439m E: 405546m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

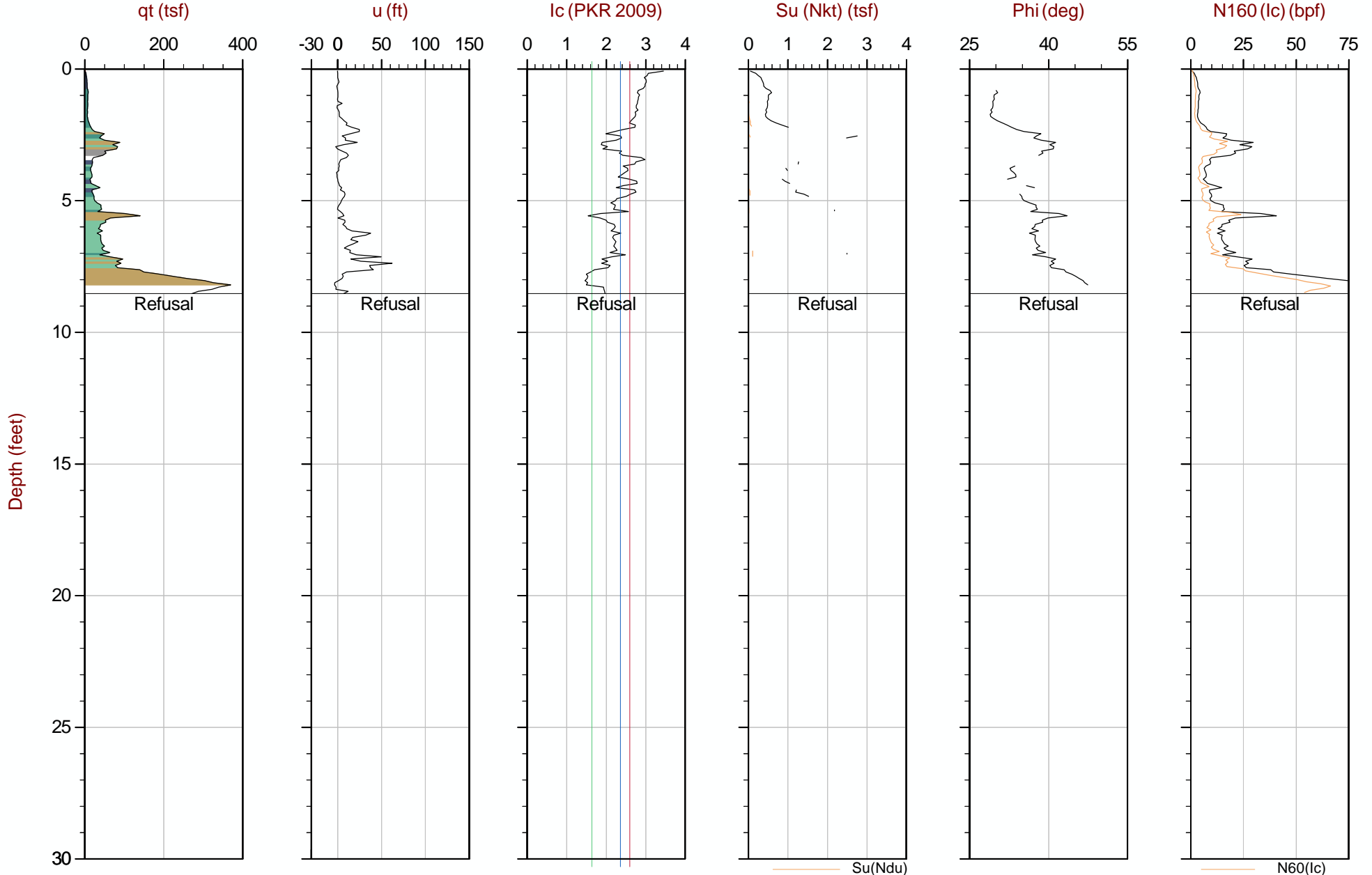
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 14:11  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-093  
Cone: 604:T1500F15U35



Max Depth: 2.600 m / 8.53 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-093.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782440m E: 405488m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

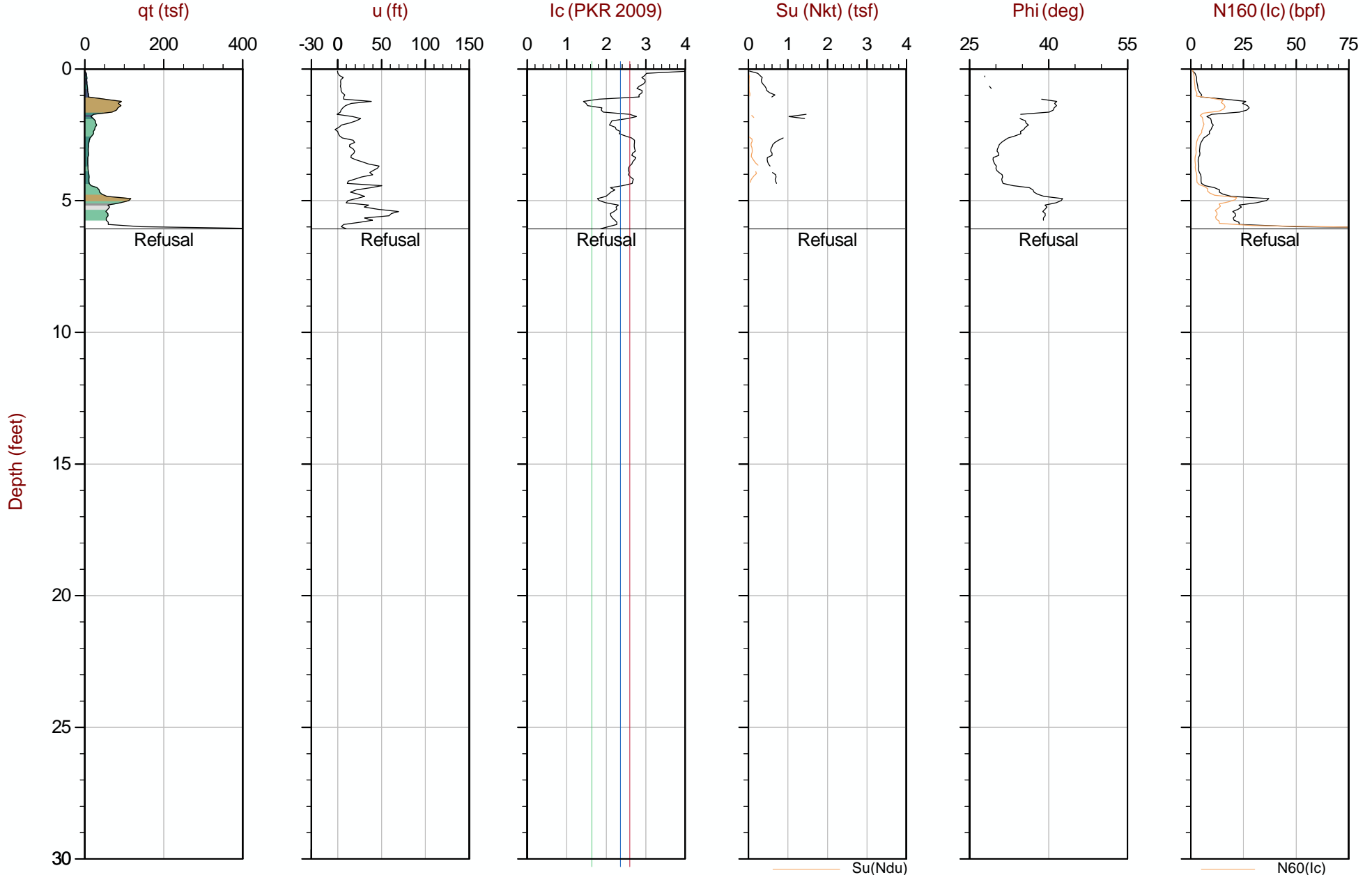
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 07:28  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-095  
Cone: 604:T1500F15U35



Max Depth: 1.850 m / 6.07 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-095.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782440m E: 405366m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

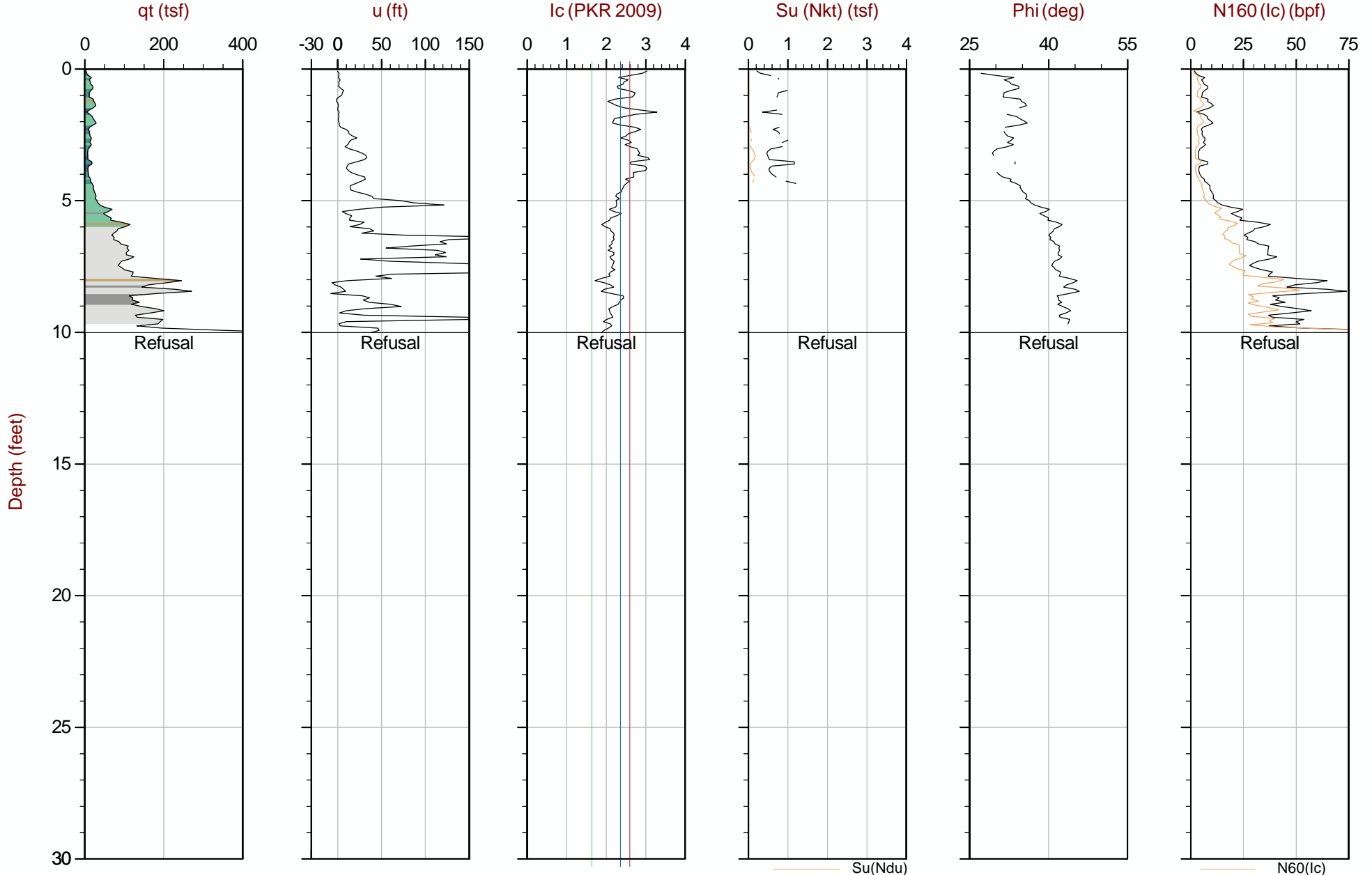
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 12:45  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-097  
Cone: 604:T1500F15U35



Max Depth: 3.050 m / 10.01 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-097.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782444m E: 405240m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

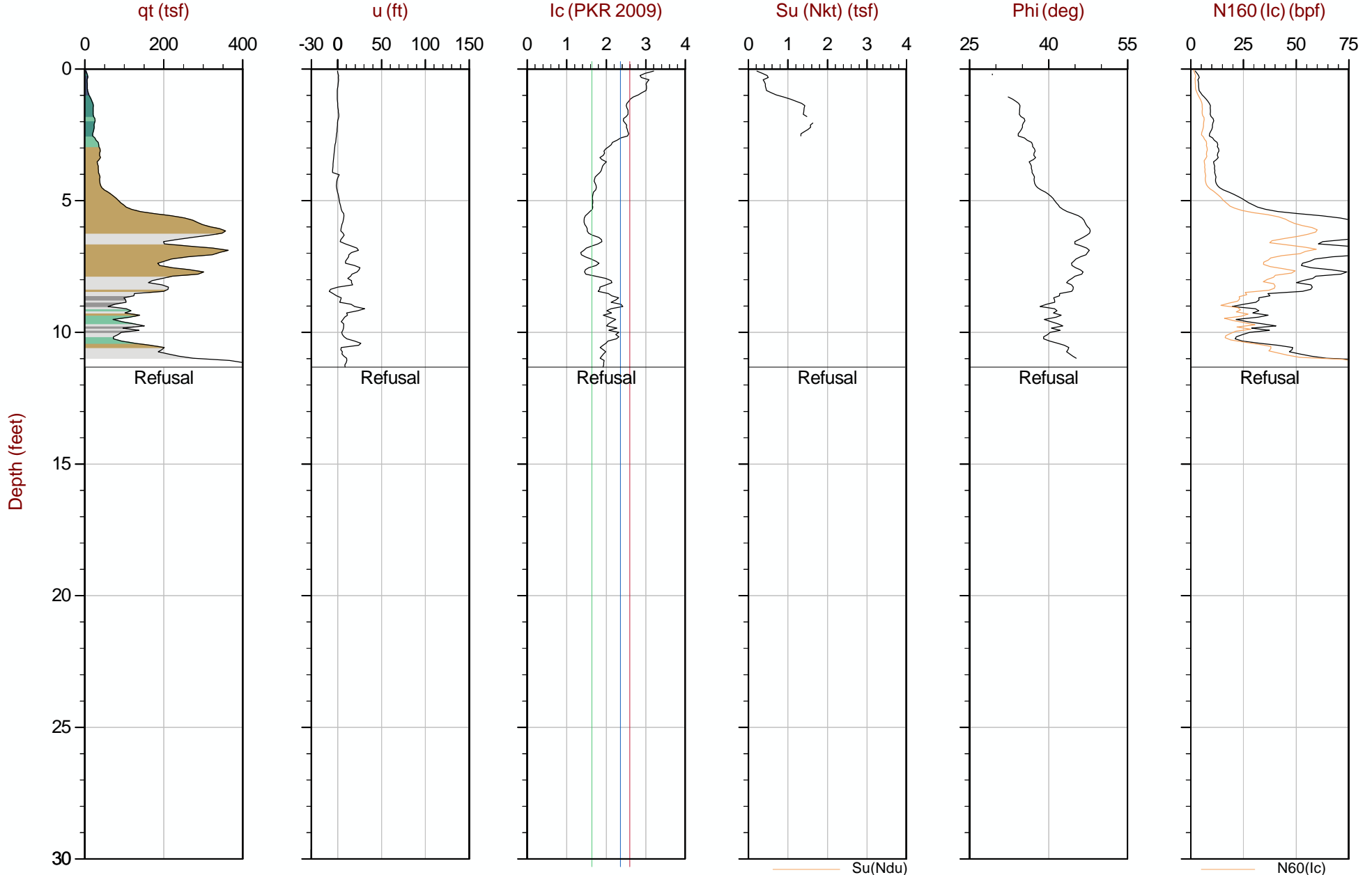
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 08:00  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-098  
Cone: 604:T1500F15U35



Max Depth: 3.450 m / 11.32 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-098.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782436m E: 405738m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◀ PPD, Ueq achieved ◁ PPD, Ueq not achieved

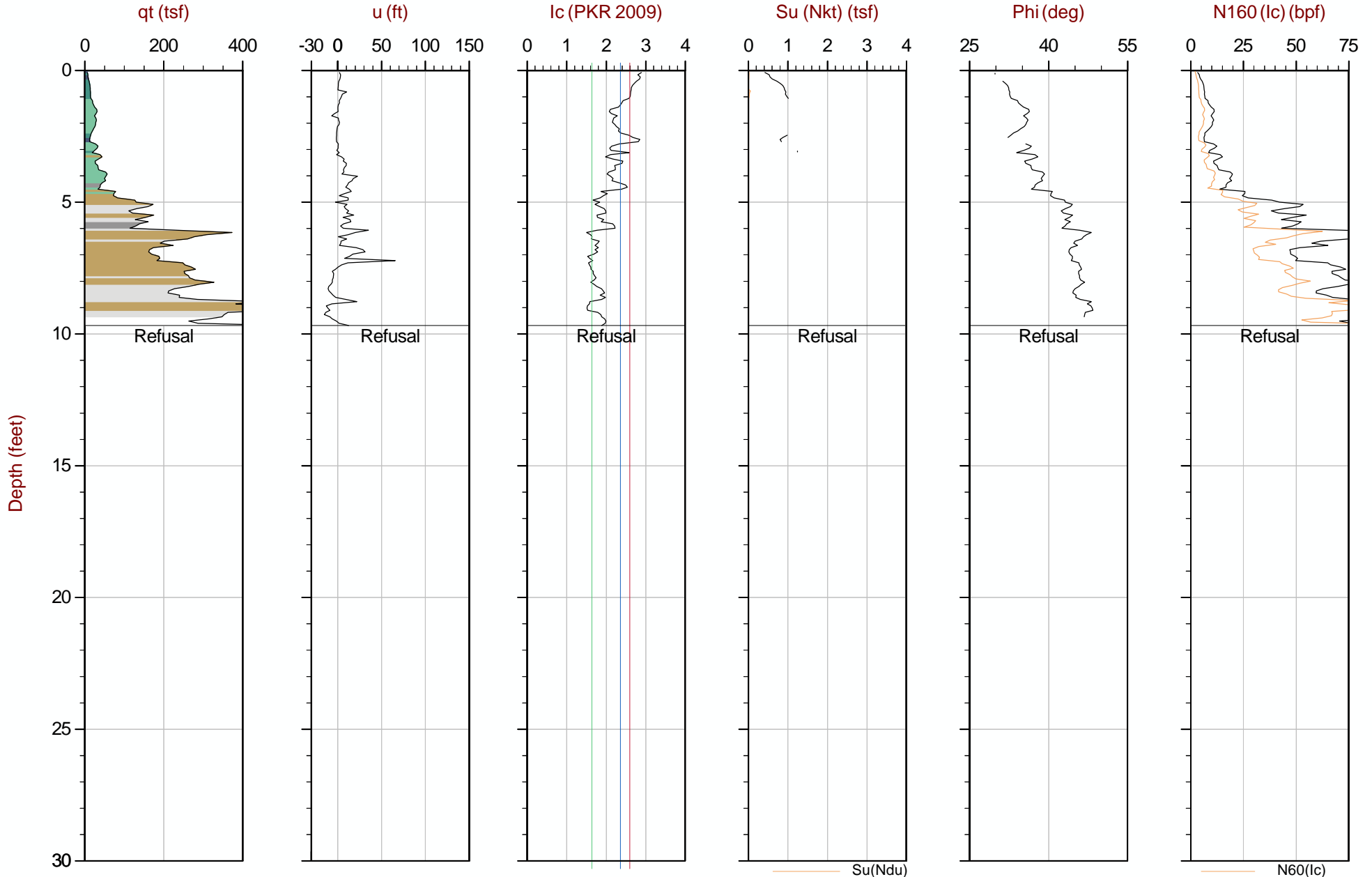
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 11:28  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-102  
Cone: 604:T1500F15U35



Max Depth: 2.950 m / 9.68 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-102.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782407m E: 405552m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

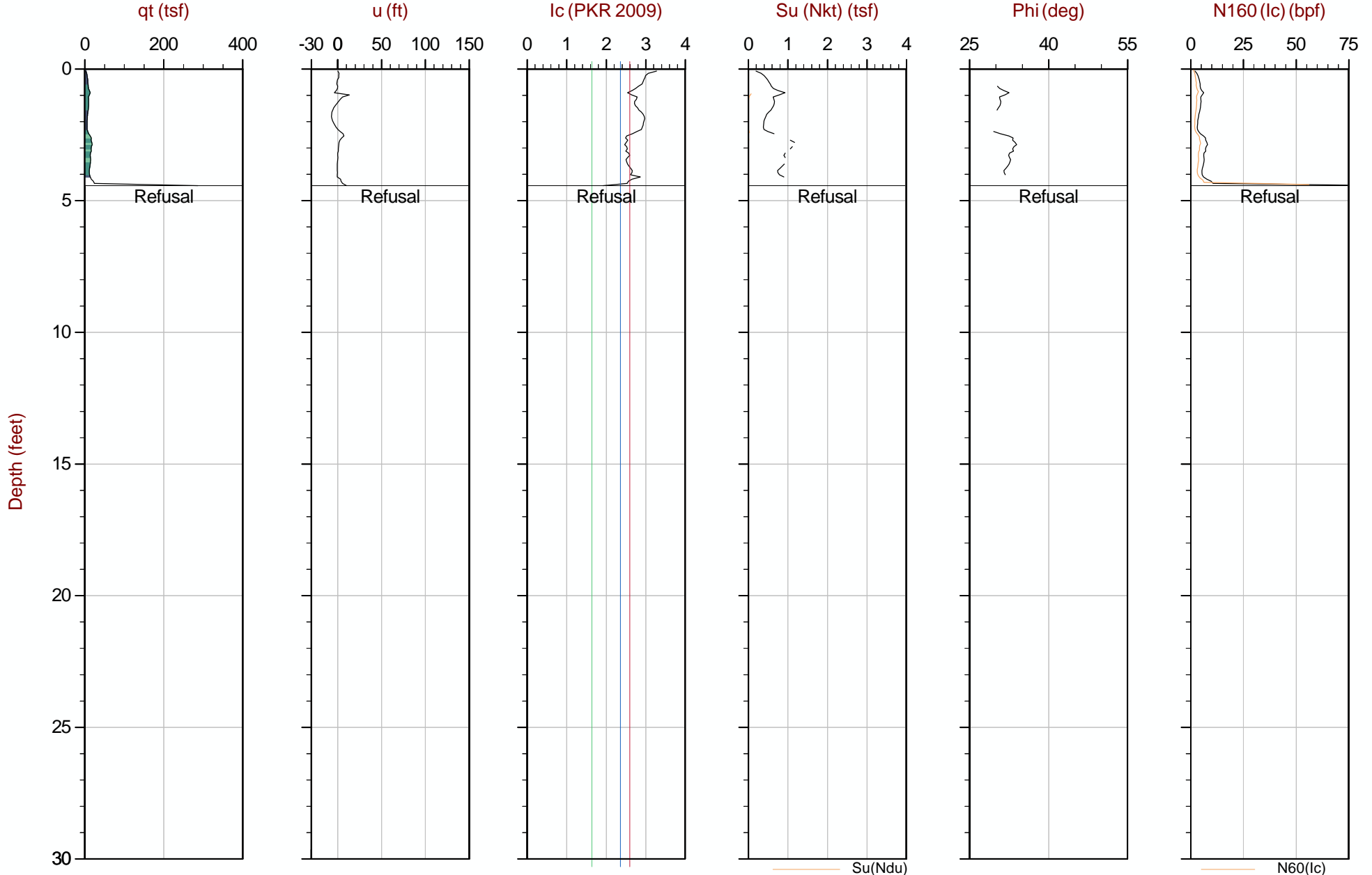
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 12:09  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-104  
Cone: 604:T1500F15U35



Max Depth: 1.350 m / 4.43 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-104.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782390m E: 405424m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

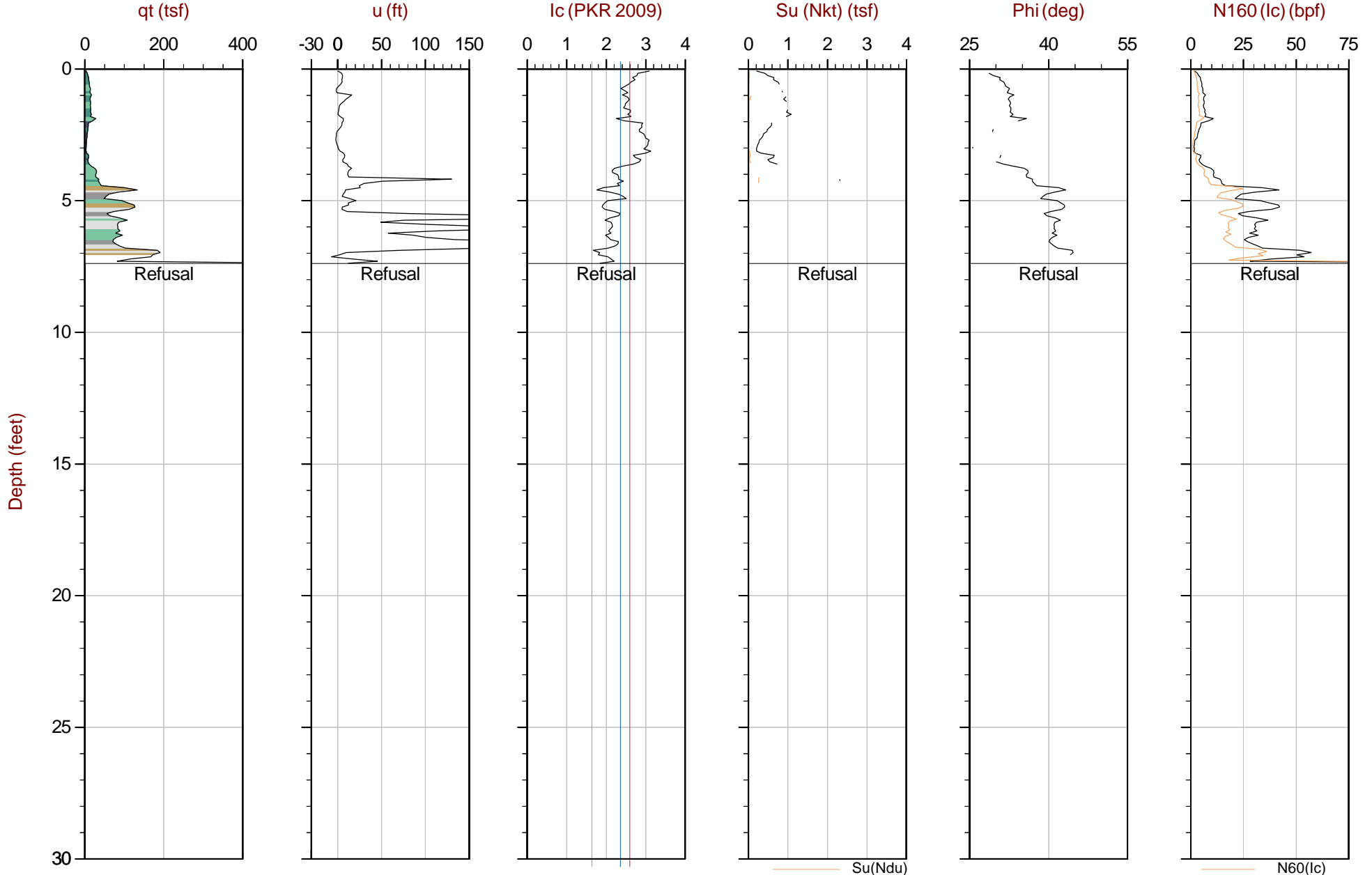
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 08:37  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-106  
Cone: 604:T1500F15U35



Max Depth: 2.250 m / 7.38 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-106.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782406m E: 405306m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

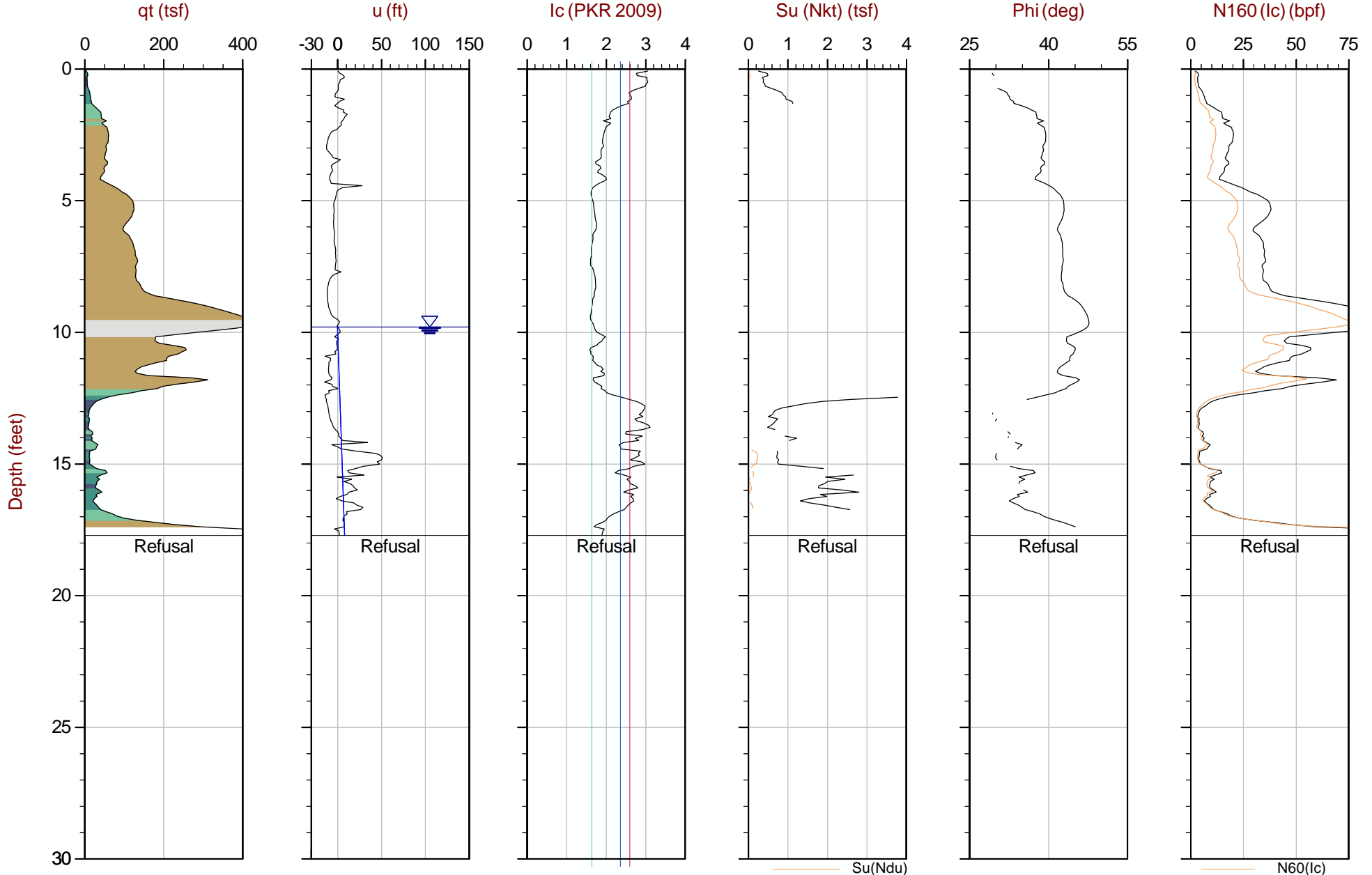




**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 08:35  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-107  
Cone: 604:T1500F15U35



Max Depth: 5.400 m / 17.72 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-107.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782397m E: 405742m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◁ PPD, Ueq achieved ◀ PPD, Ueq not achieved

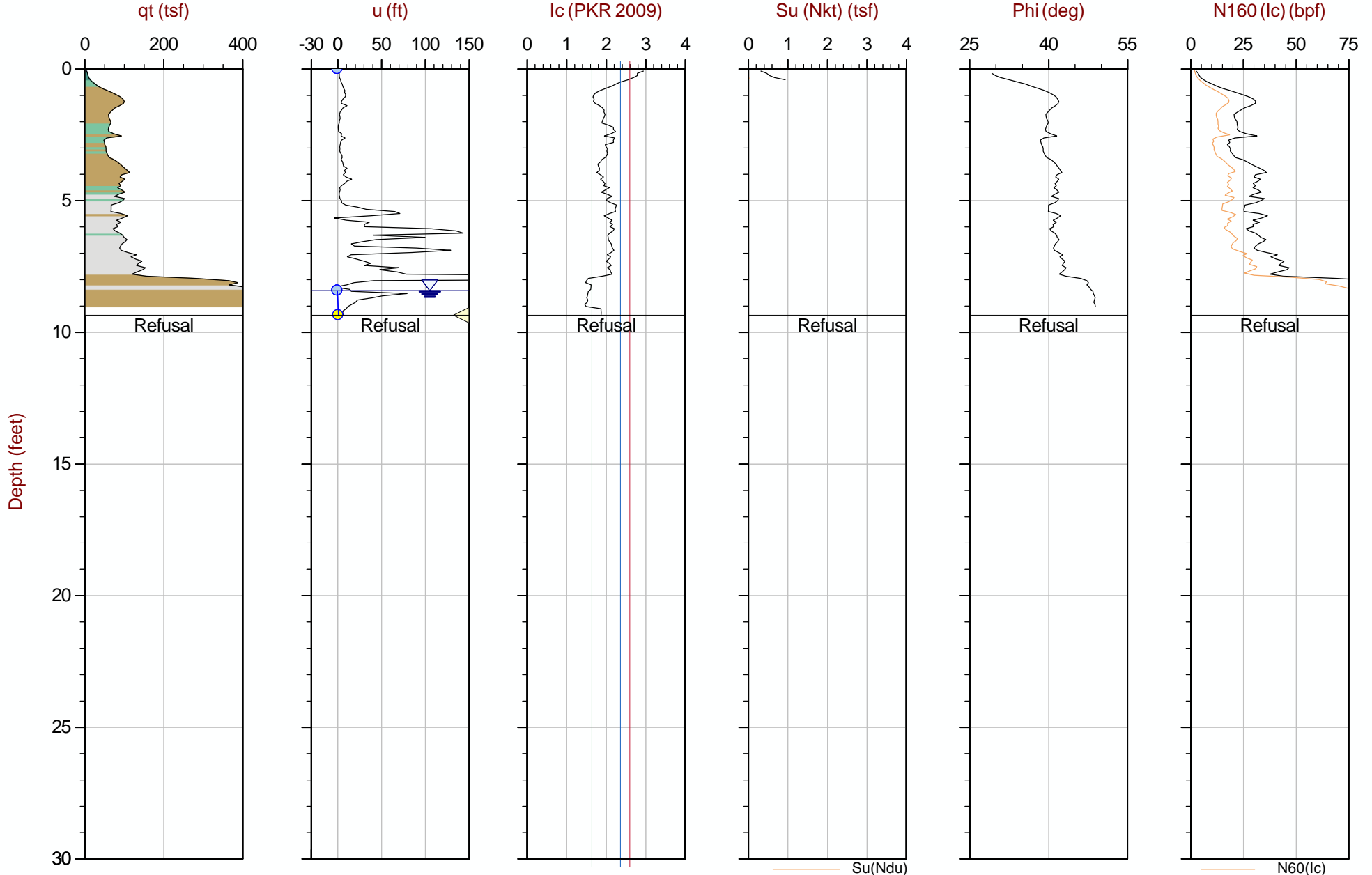
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 10:50  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-112  
Cone: 604:T1500F15U35



Max Depth: 2.850 m / 9.35 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-112.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782363m E: 405534m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◀ PPD, Ueq achieved ◁ PPD, Ueq not achieved

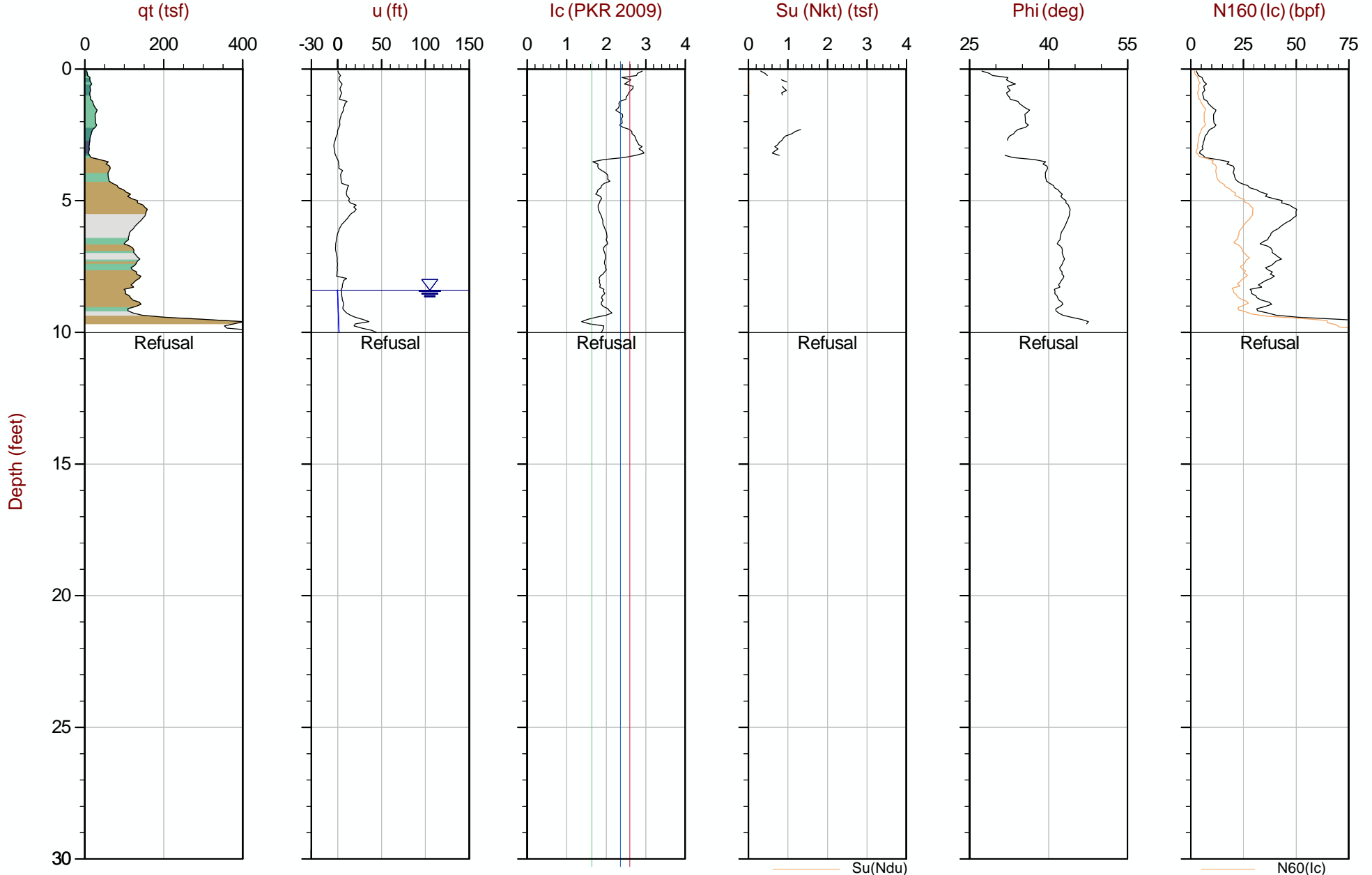
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 09:36  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-113  
Cone: 604:T1500F15U35



Max Depth: 3.050 m / 10.01 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-113.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782359m E: 405498m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◁ PPD, Ueq achieved   ◁ PPD, Ueq not achieved

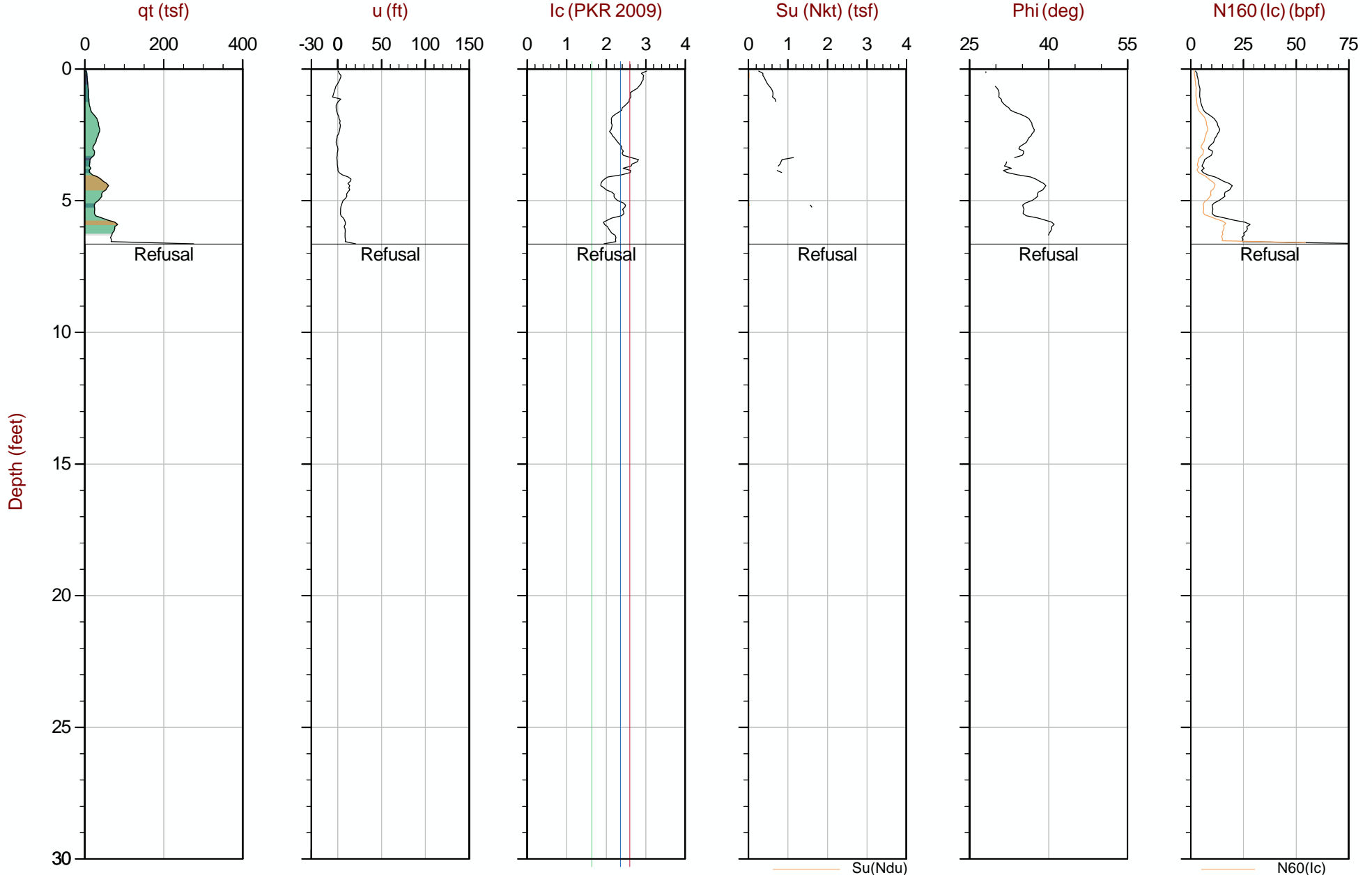
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 09:03  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-115  
Cone: 604:T1500F15U35



Max Depth: 2.025 m / 6.64 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-115.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782356m E: 405372m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

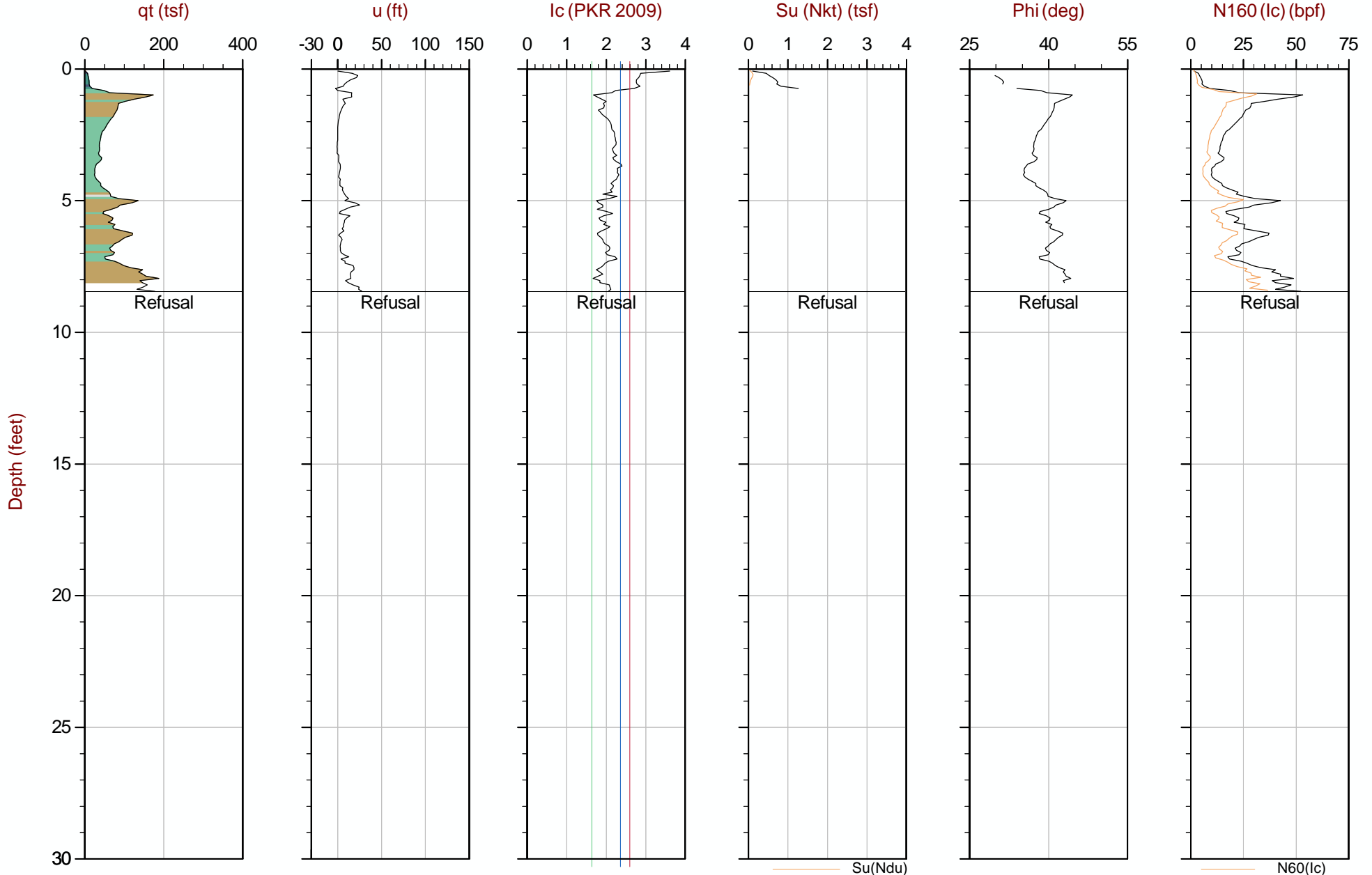
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 10:14  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-120  
Cone: 604:T1500F15U35



Max Depth: 2.575 m / 8.45 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-120.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782336m E: 405417m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

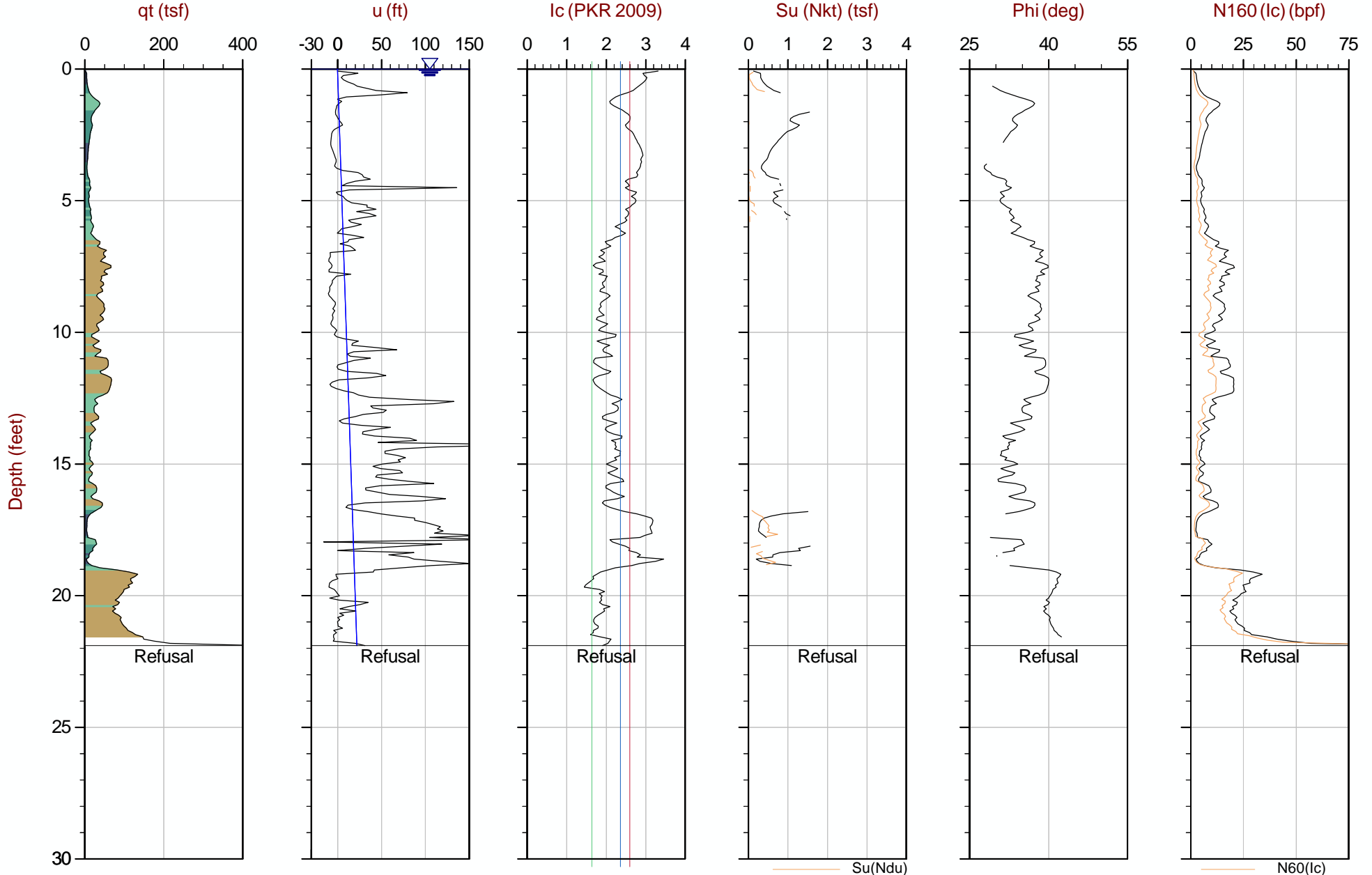
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 14:56  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-208  
Cone: 606:T1500F15U35



Max Depth: 6.675 m / 21.90 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-208.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782904m E: 406684m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◀ PPD, Ueq achieved ◁ PPD, Ueq not achieved

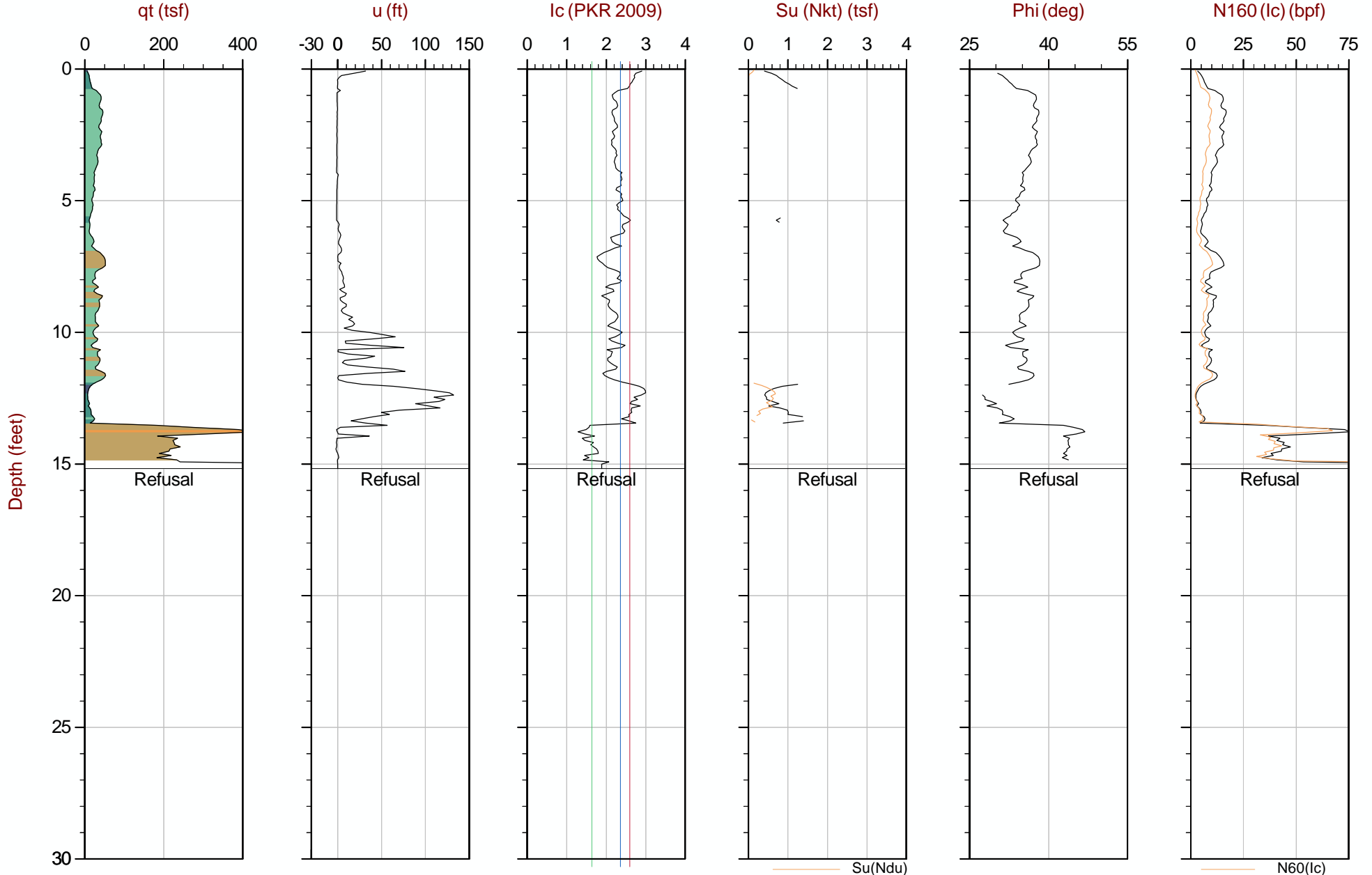
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 10:44  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-221  
Cone: 606:T1500F15U35



Max Depth: 4.625 m / 15.17 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-221.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783038m E: 406405m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

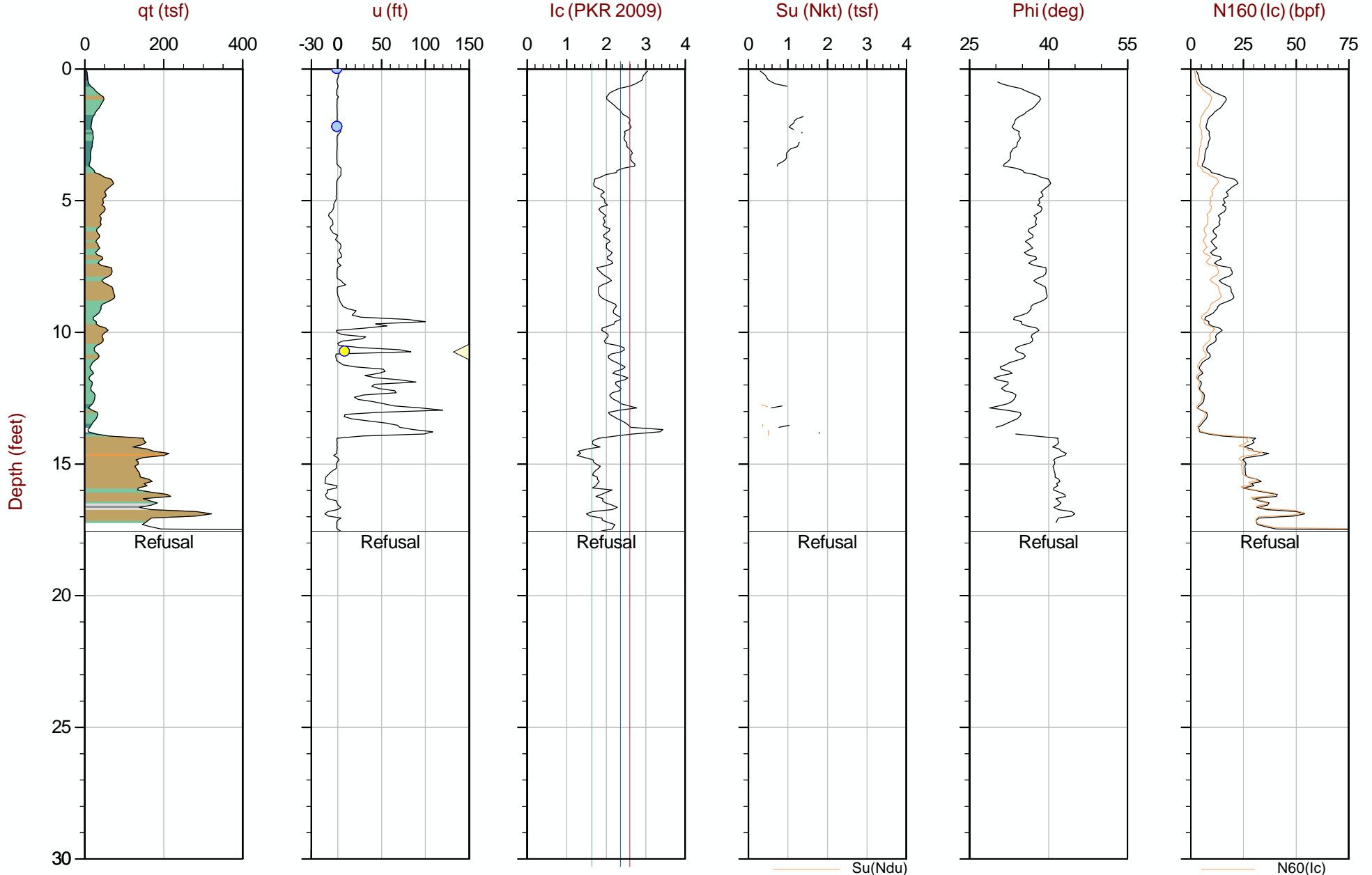
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 11:16  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-222  
Cone: 606:T1500F15U35



Max Depth: 5.350 m / 17.55 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-222.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783002m E: 406458m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

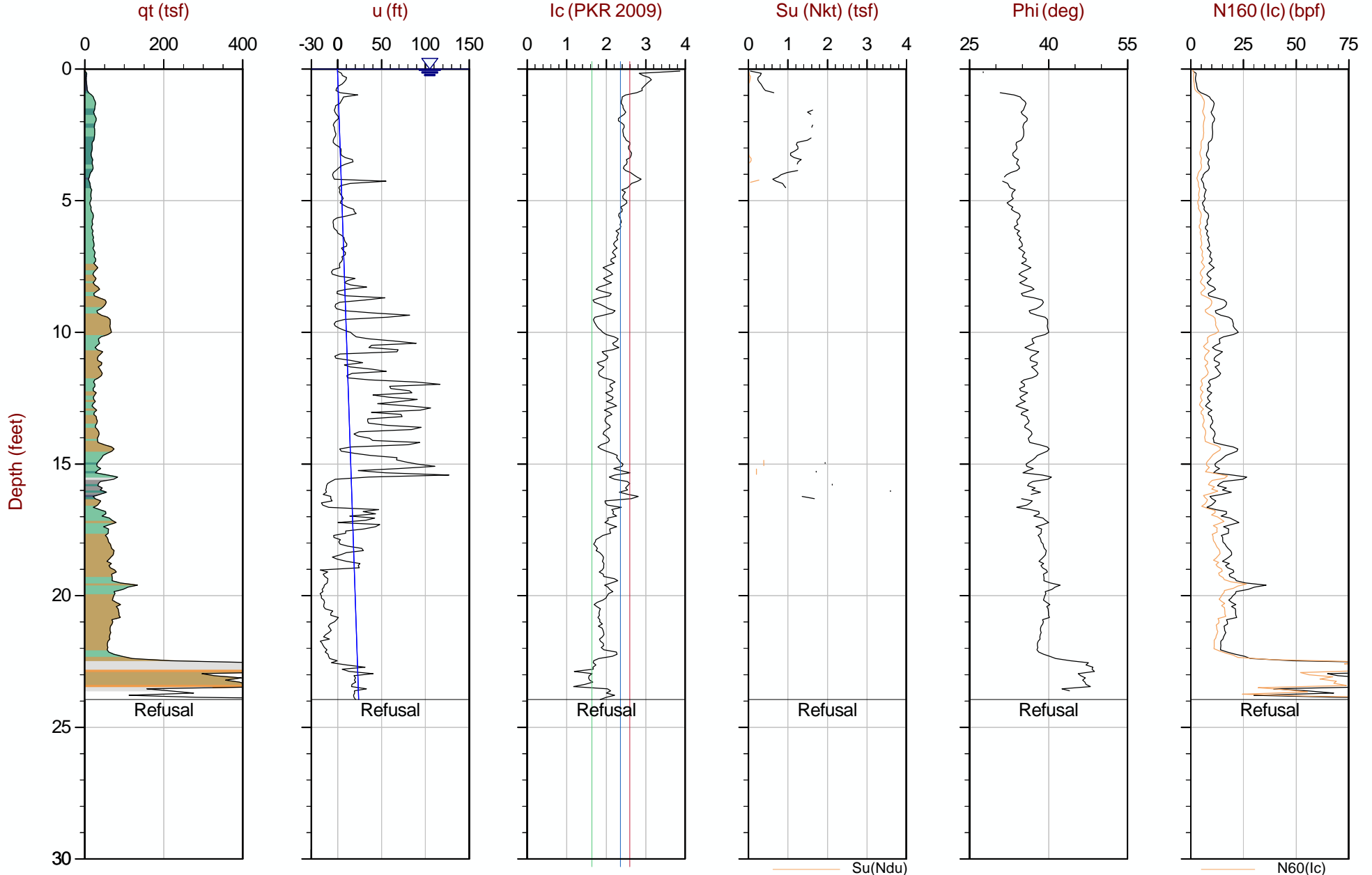




**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 14:26  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-225  
Cone: 606:T1500F15U35



Max Depth: 7.300 m / 23.95 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-225.COR  
Unit Wt: SBTQtn (PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782889m E: 406600m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

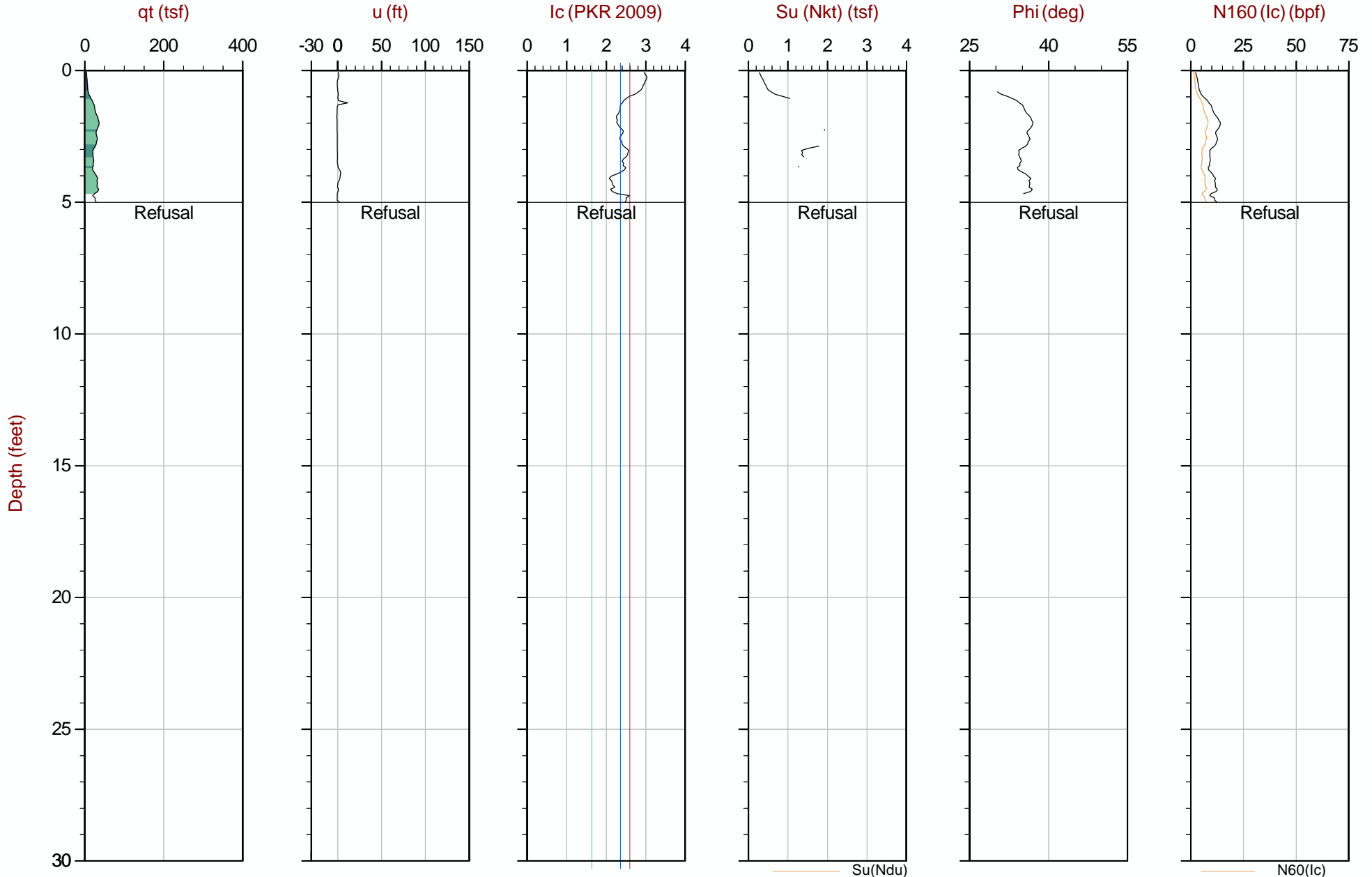
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 12:08  
Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-228  
Cone: 606:T1500F15U35



Max Depth: 1.525 m / 5.00 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_SPB-228.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782803m E: 406617m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

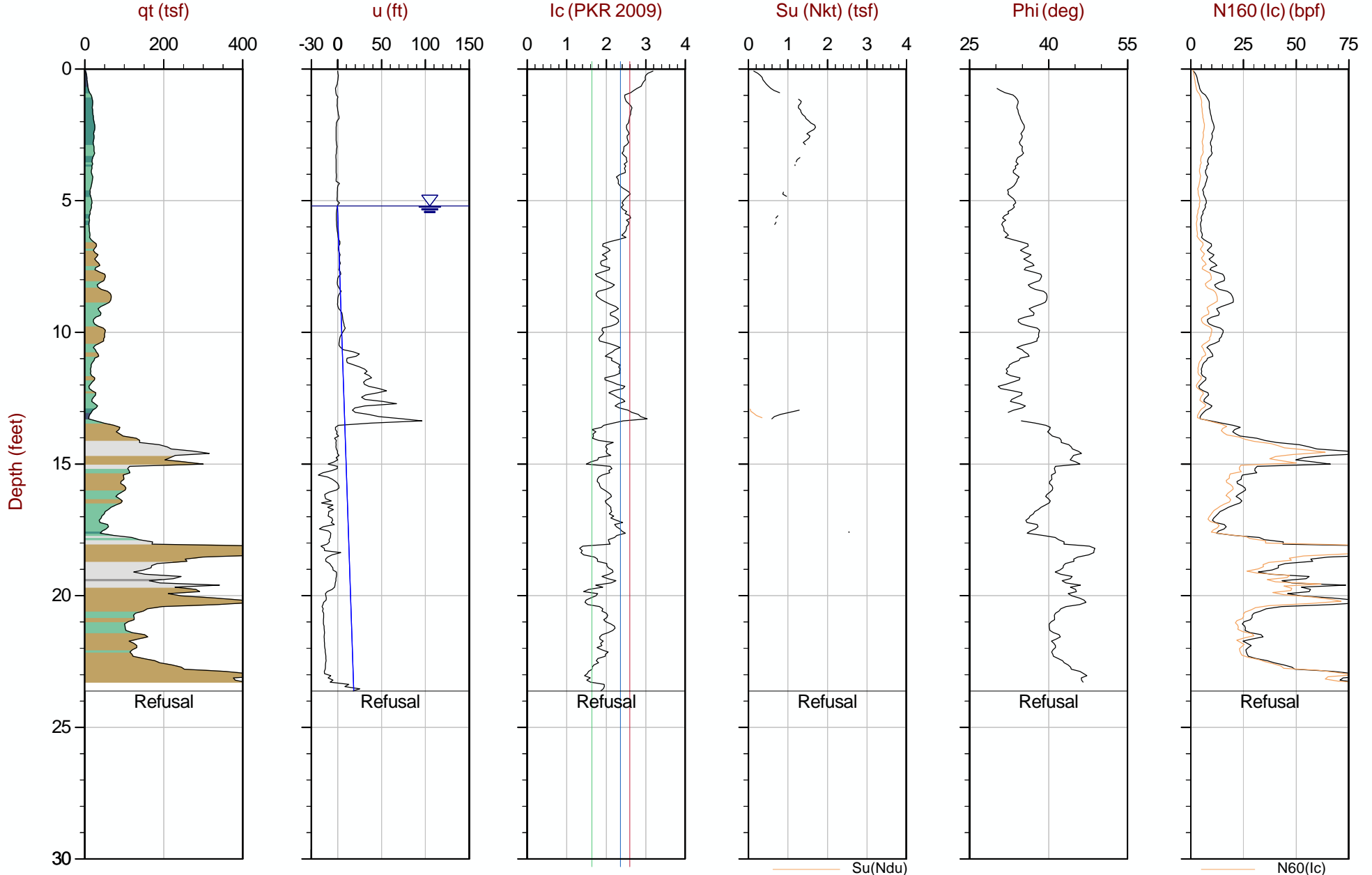
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 13:08  
Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-228A  
Cone: 606:T1500F15U35



Max Depth: 7.200 m / 23.62 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_SPB-228A.COR  
Unit Wt: SBTQtn (PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782805m E: 406616m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◁ PPD, Ueq achieved ▷ PPD, Ueq not achieved

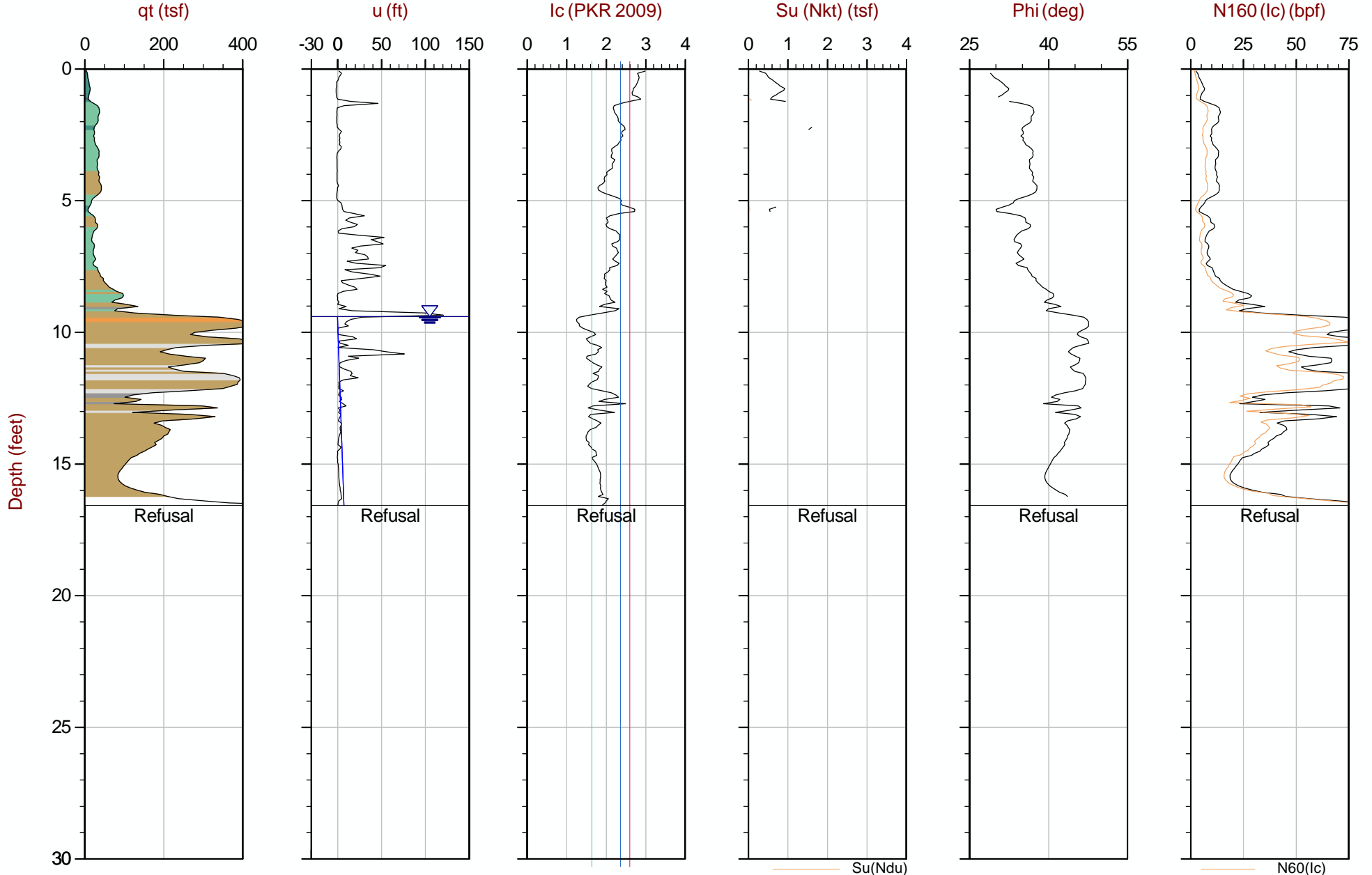
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 09:53  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-237  
Cone: 606:T1500F15U35



Max Depth: 5.050 m / 16.57 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-237.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782977m E: 406285m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◁ PPD, Ueq achieved ◀ PPD, Ueq not achieved

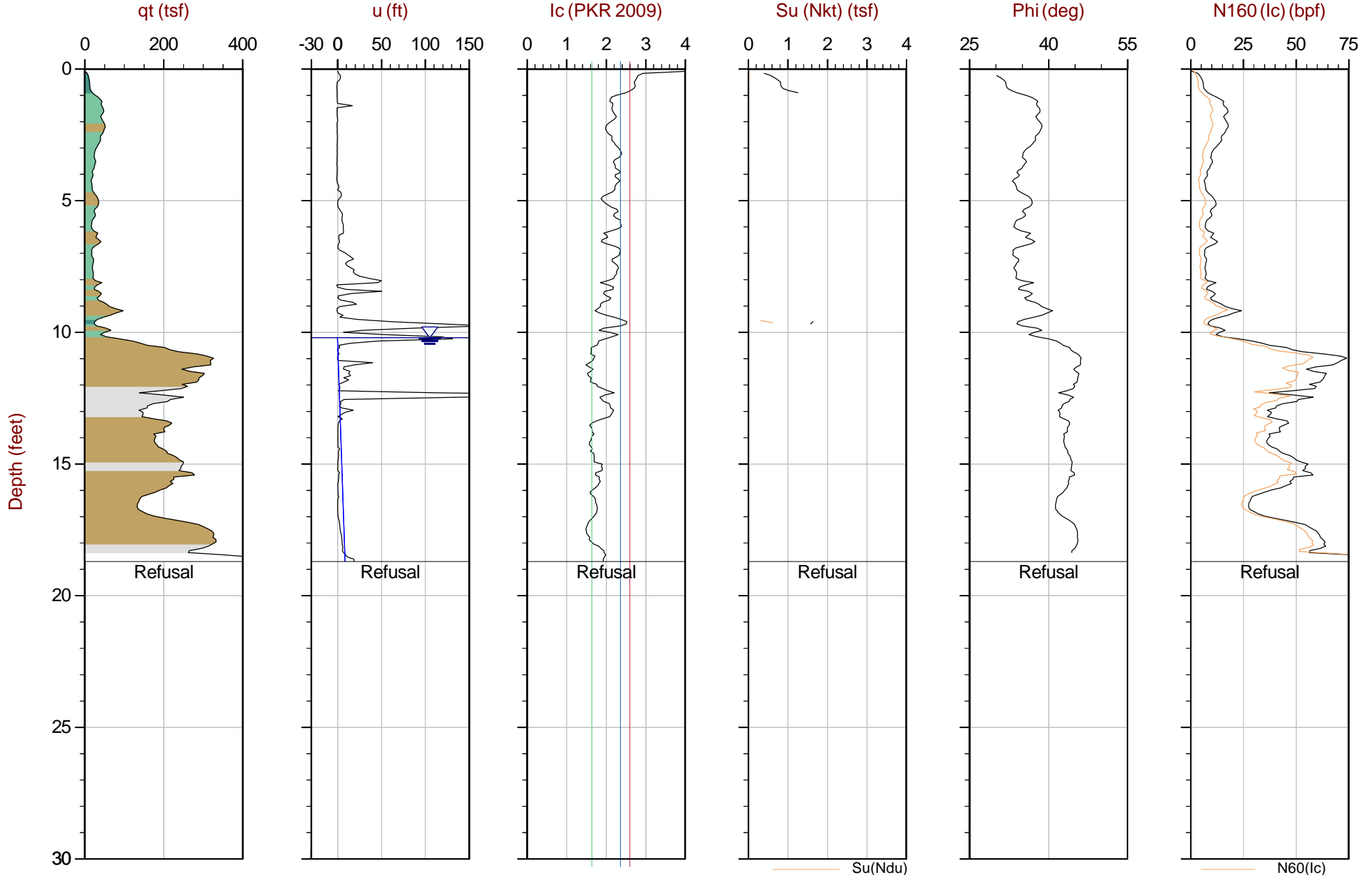
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 10:16  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-238  
Cone: 606:T1500F15U35



Max Depth: 5.700 m / 18.70 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-238.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782942m E: 4063333m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

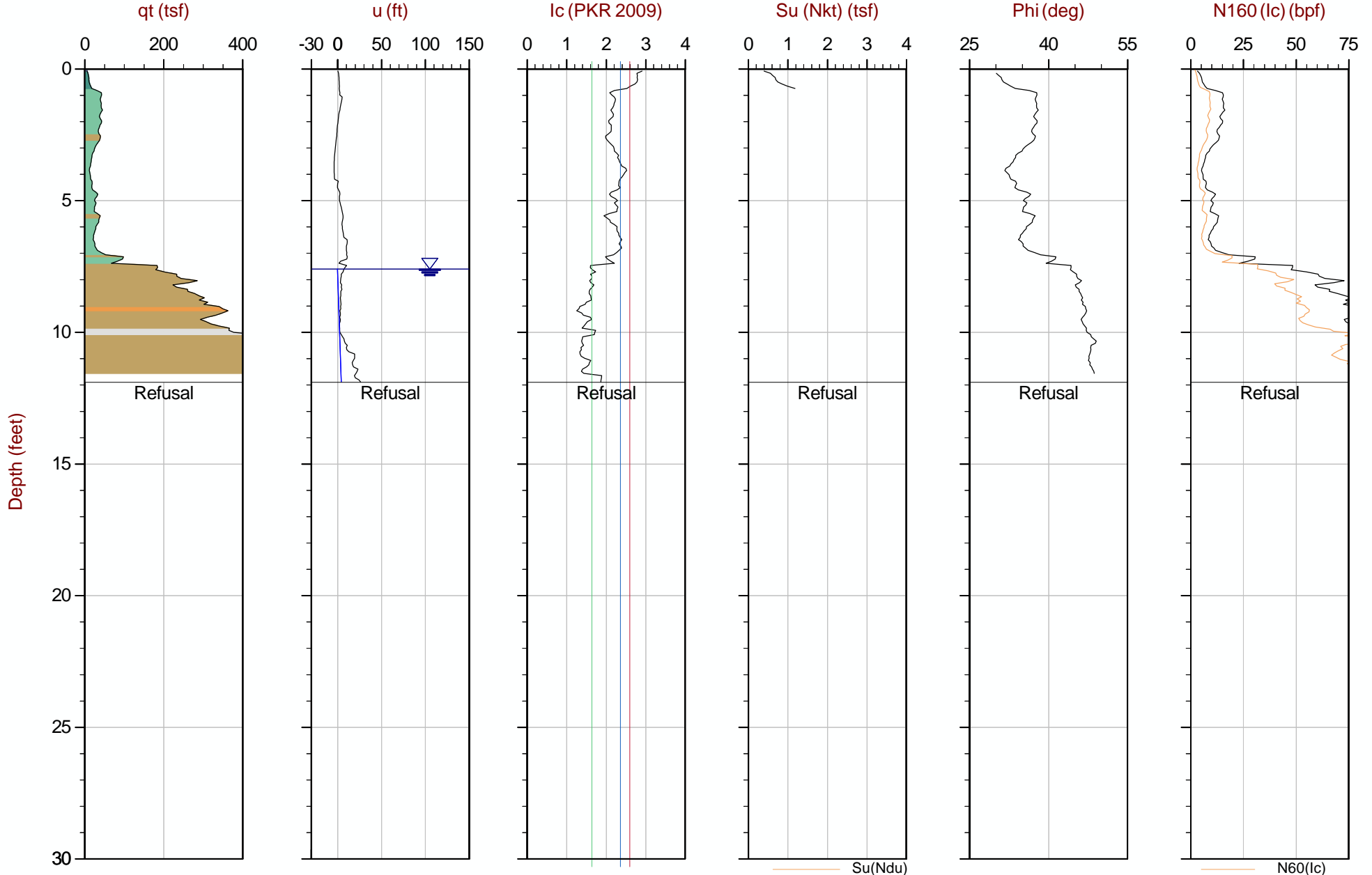
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 07:33  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-243  
Cone: 604:T1500F15U35



Max Depth: 3.625 m / 11.89 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-243.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782901m E: 406077m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◁ PPD, Ueq achieved ◀ PPD, Ueq not achieved

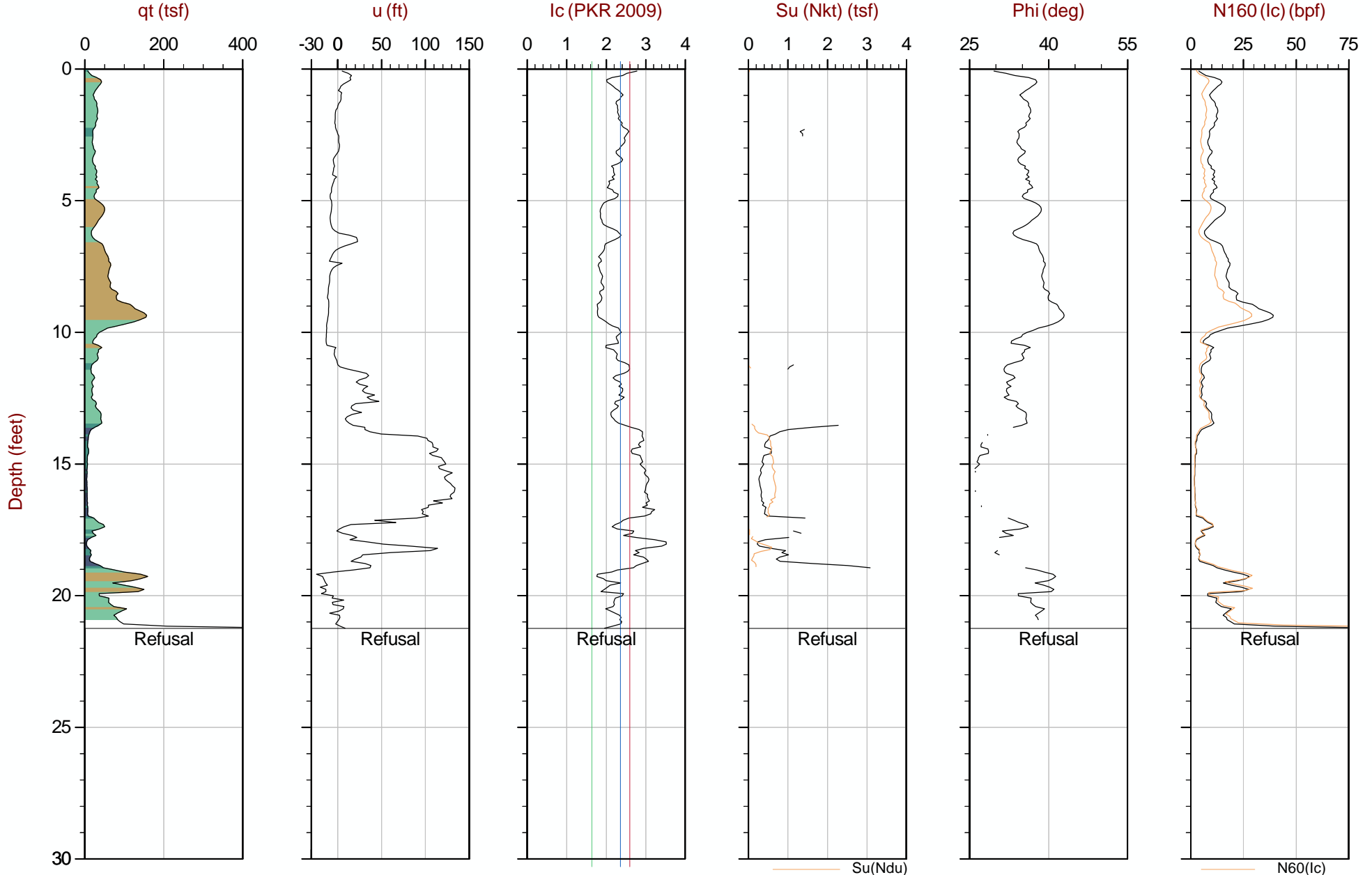
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 09:50  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-244  
Cone: 604:T1500F15U35



Max Depth: 6.475 m / 21.24 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-244.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782940m E: 406022m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

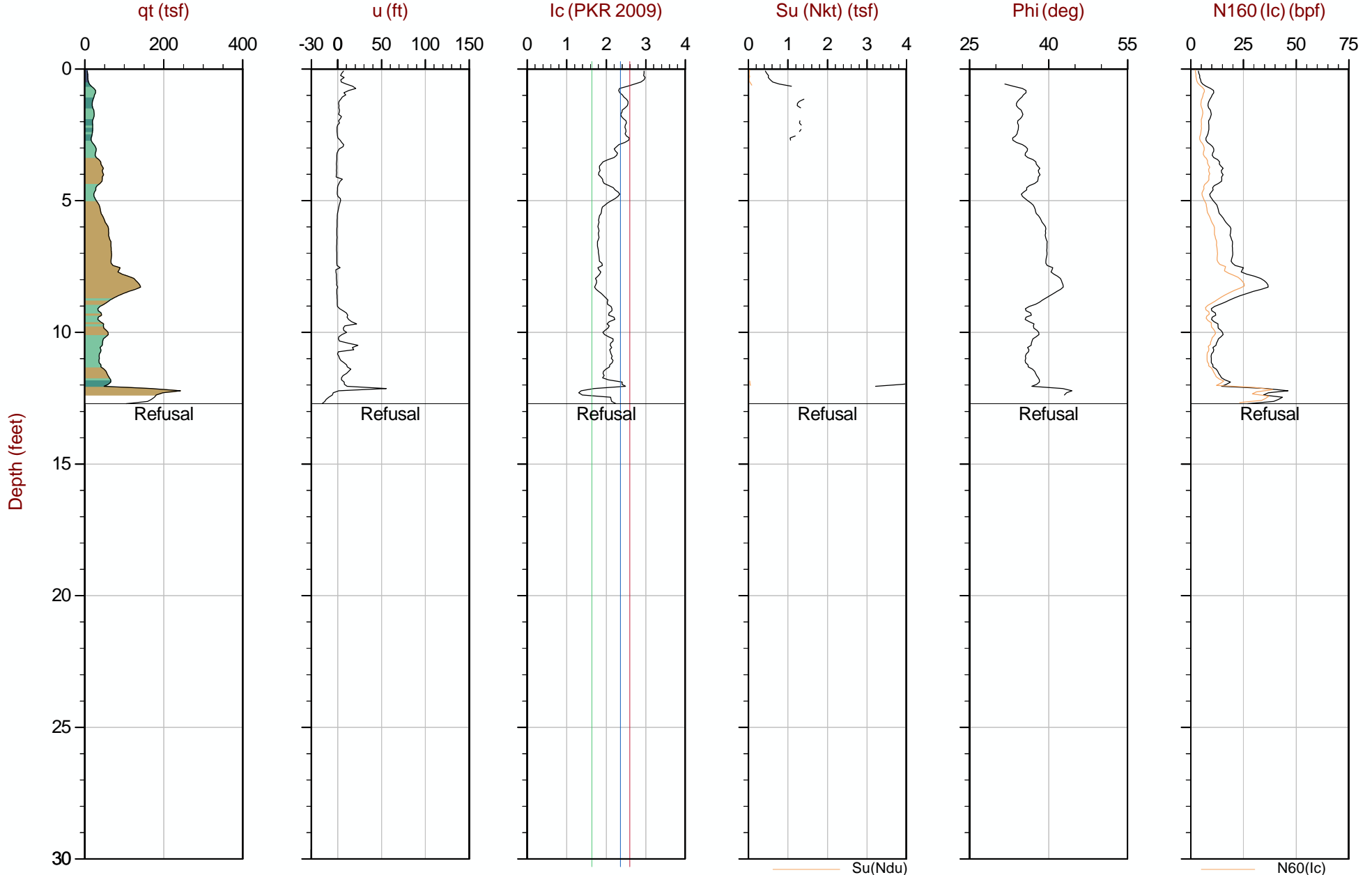
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 11:06  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-246  
Cone: 606:T1500F15U35



Max Depth: 3.875 m / 12.71 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-246.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782950m E: 405893m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◀ PPD, Ueq achieved    ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

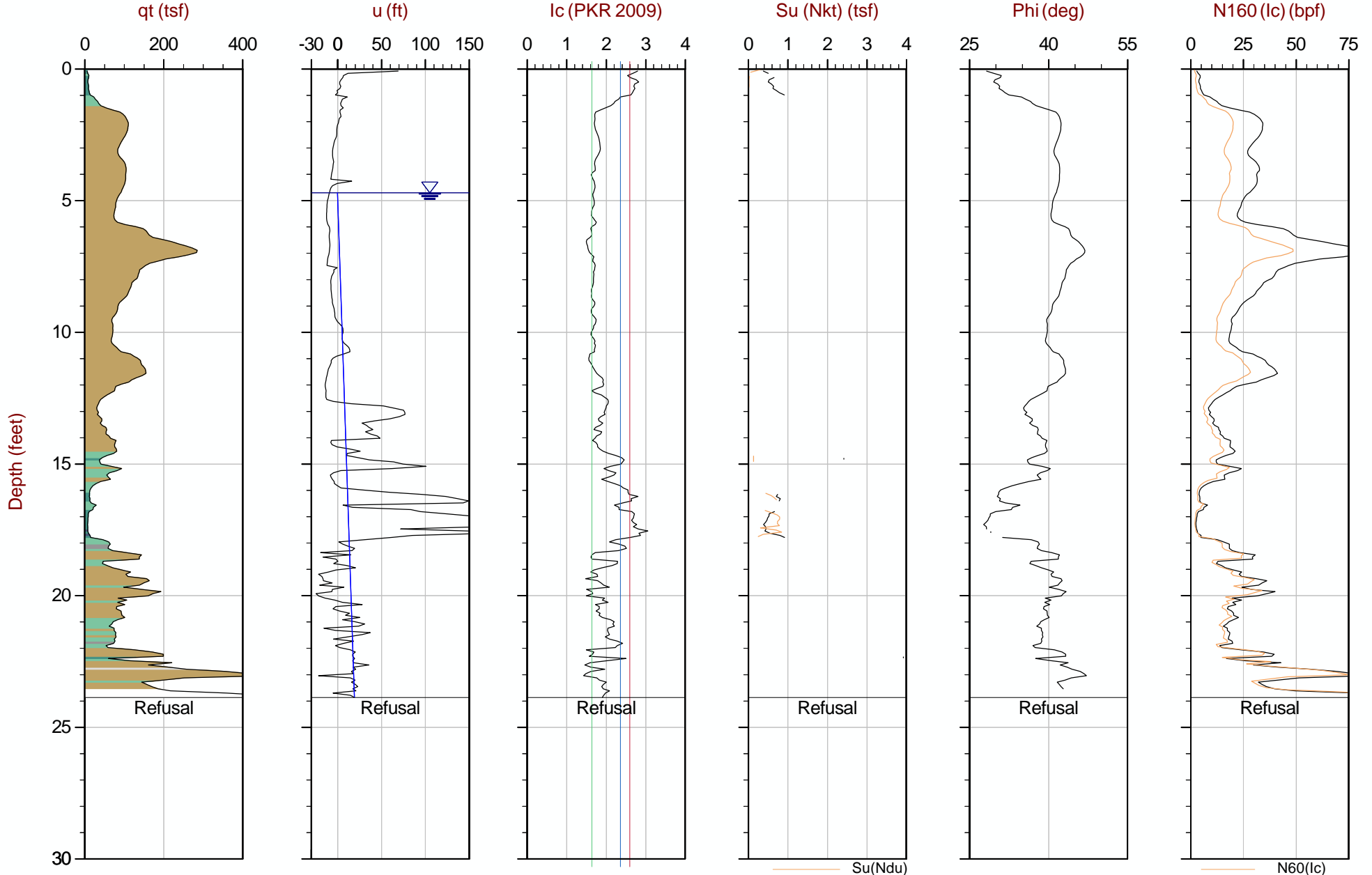




**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 12:00  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-252  
Cone: 606:T1500F15U35



Max Depth: 7.275 m / 23.87 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-252.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783005m E: 405730m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◀ PPD, Ueq achieved ◁ PPD, Ueq not achieved

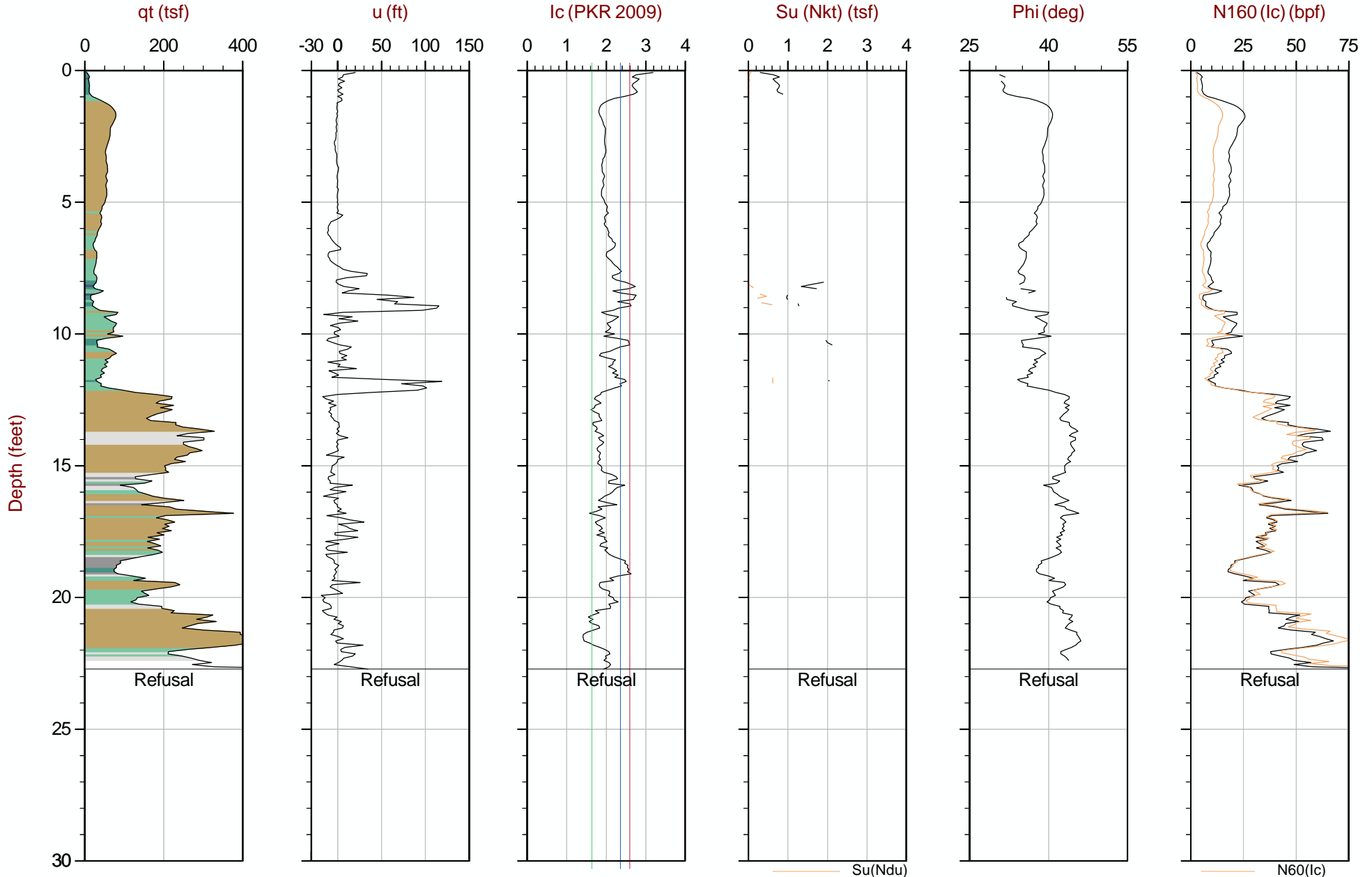
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 12:47  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-261  
Cone: 606:T1500F15U35



Max Depth: 6.925 m / 22.72 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-261.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783025m E: 405815m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◀ PPD, Ueq achieved ◁ PPD, Ueq not achieved

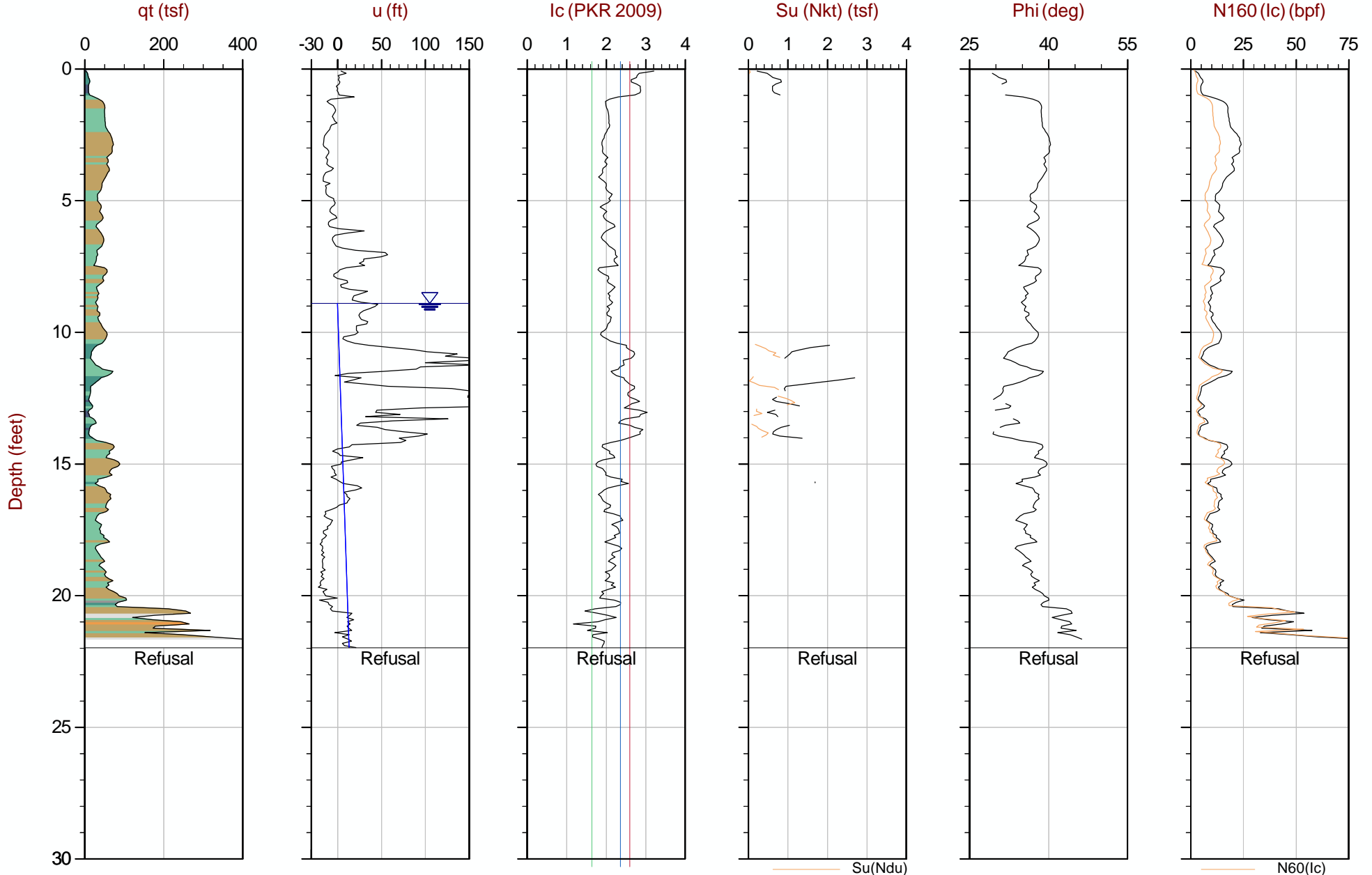
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 15:56  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-262  
Cone: 606:T1500F15U35



Max Depth: 6.700 m / 21.98 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-262.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782994m E: 405928m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◁ PPD, Ueq achieved   ▷ PPD, Ueq not achieved

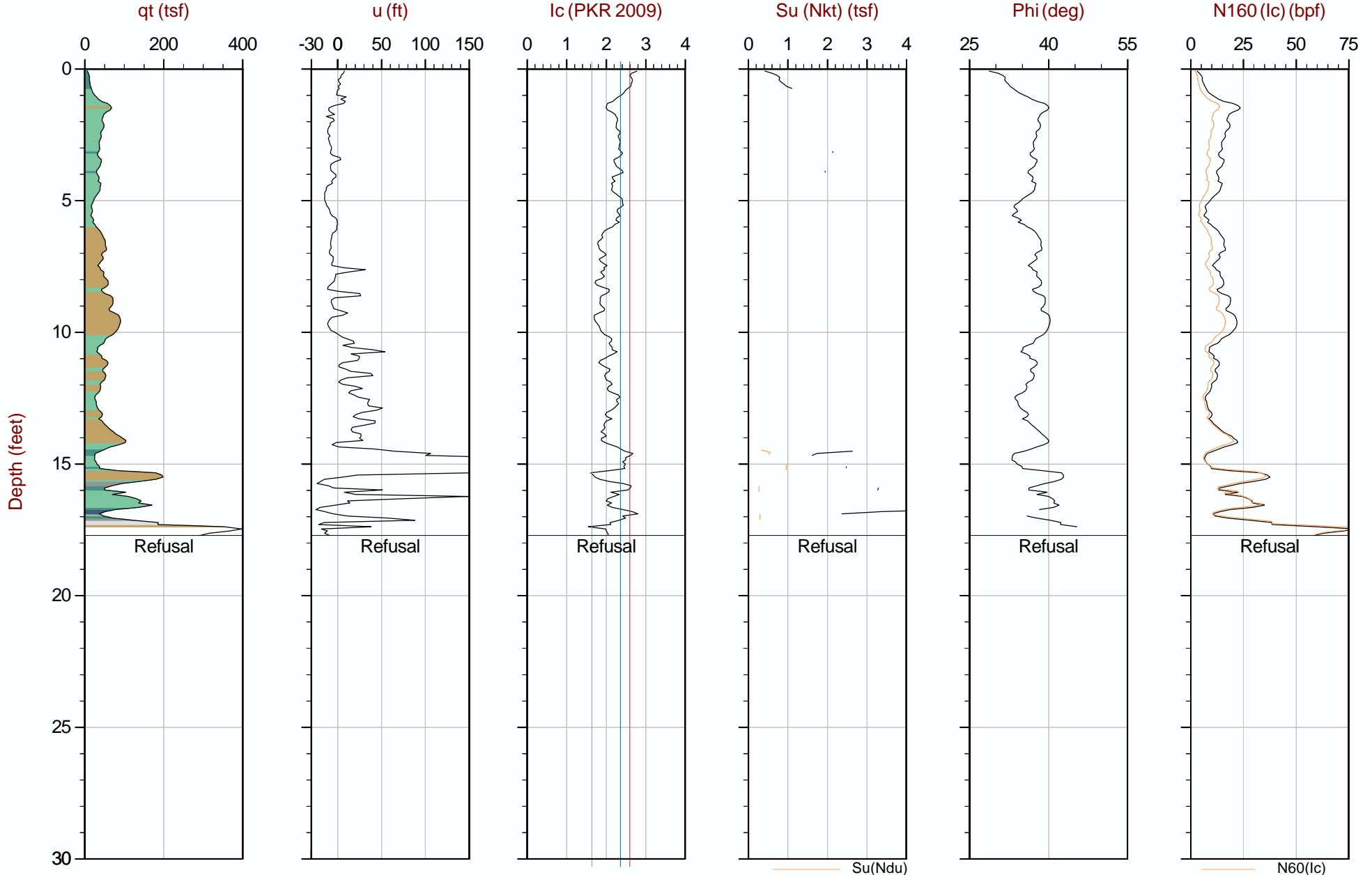
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 13:48  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-270  
Cone: 606:T1500F15U35



Max Depth: 5.400 m / 17.72 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-270.COR  
Unit Wt: SBTQn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783073m E: 405910m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

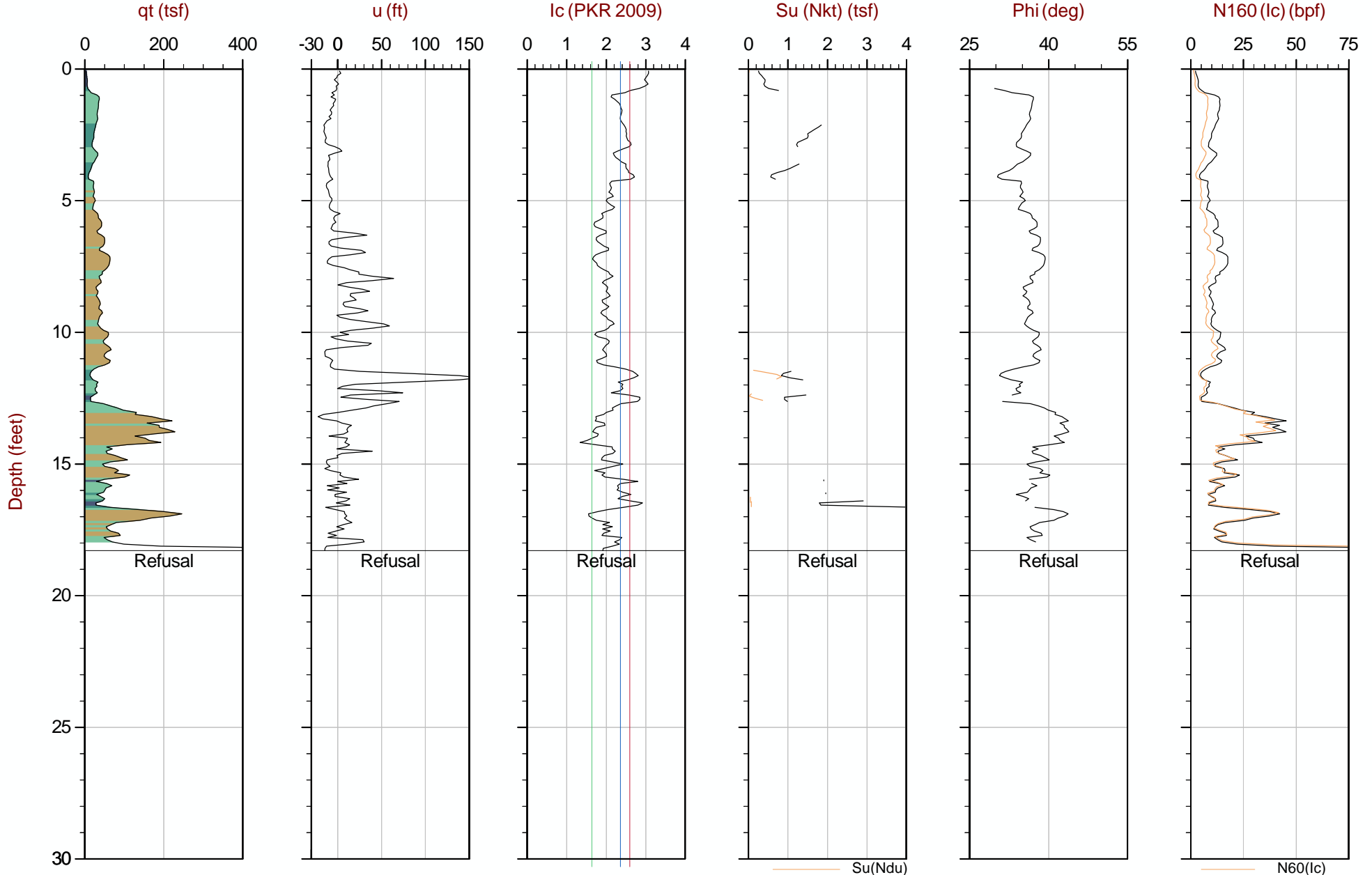
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 14:26  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-280  
Cone: 606:T1500F15U35



Max Depth: 5.575 m / 18.29 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-280.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783111m E: 405890m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

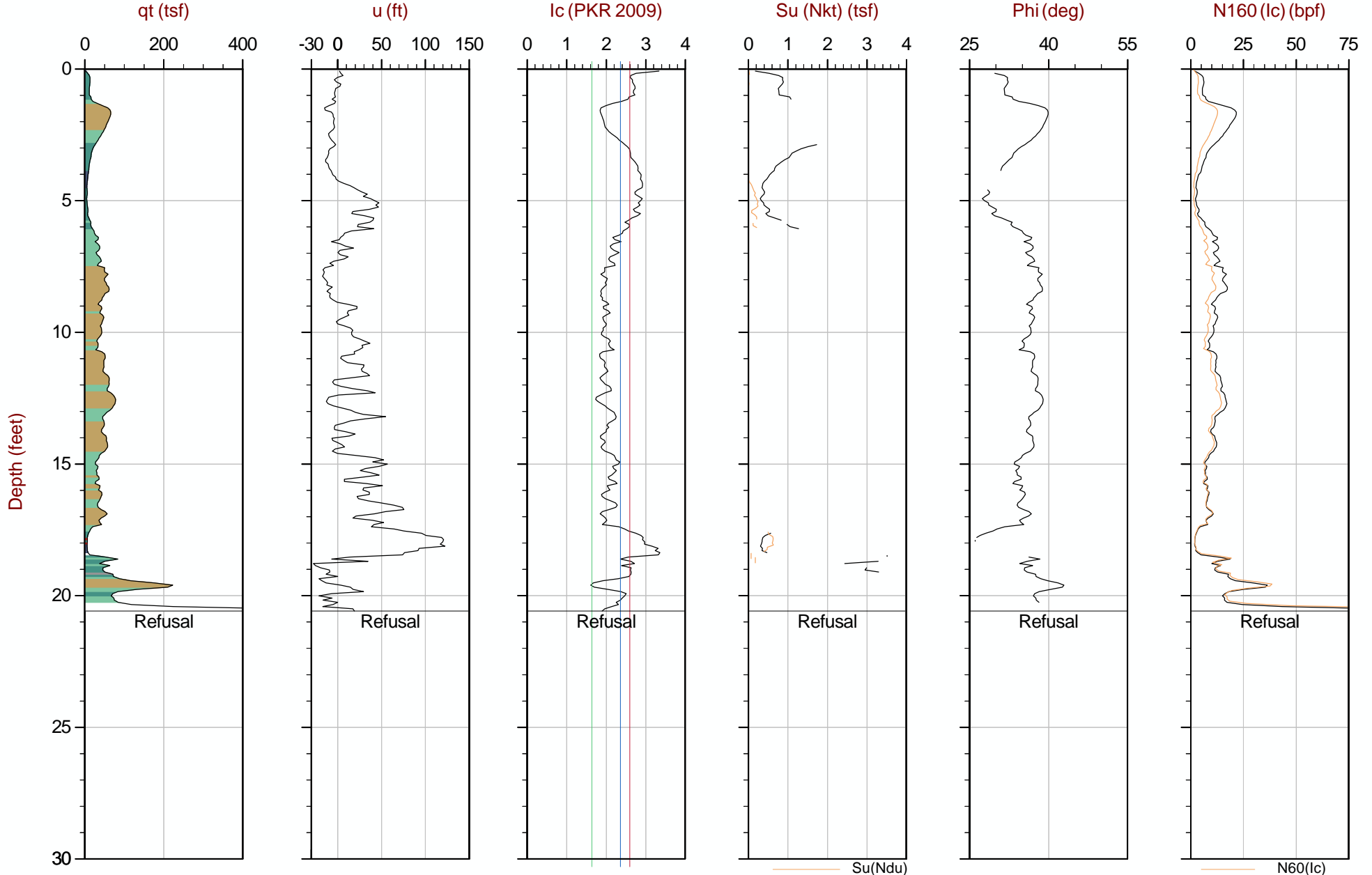
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 15:06  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-282  
Cone: 606:T1500F15U35



Max Depth: 6.275 m / 20.59 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-282.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783220m E: 405930m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

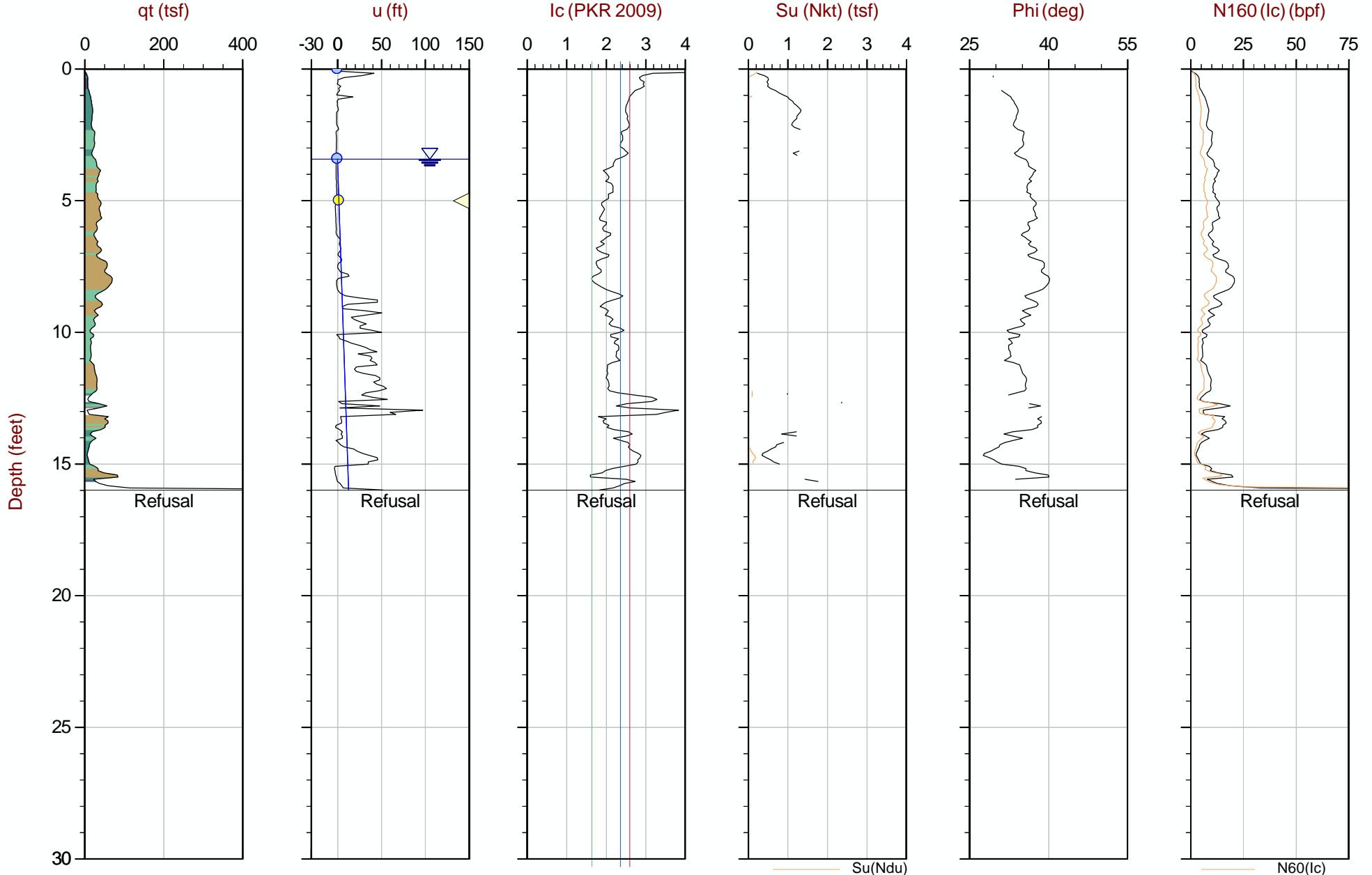
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 08:32  
Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-293  
Cone: 606:T1500F15U35



Max Depth: 4.875 m / 15.99 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_SPB-293.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783206m E: 406149m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◁ PPD, Ueq achieved ▷ PPD, Ueq not achieved

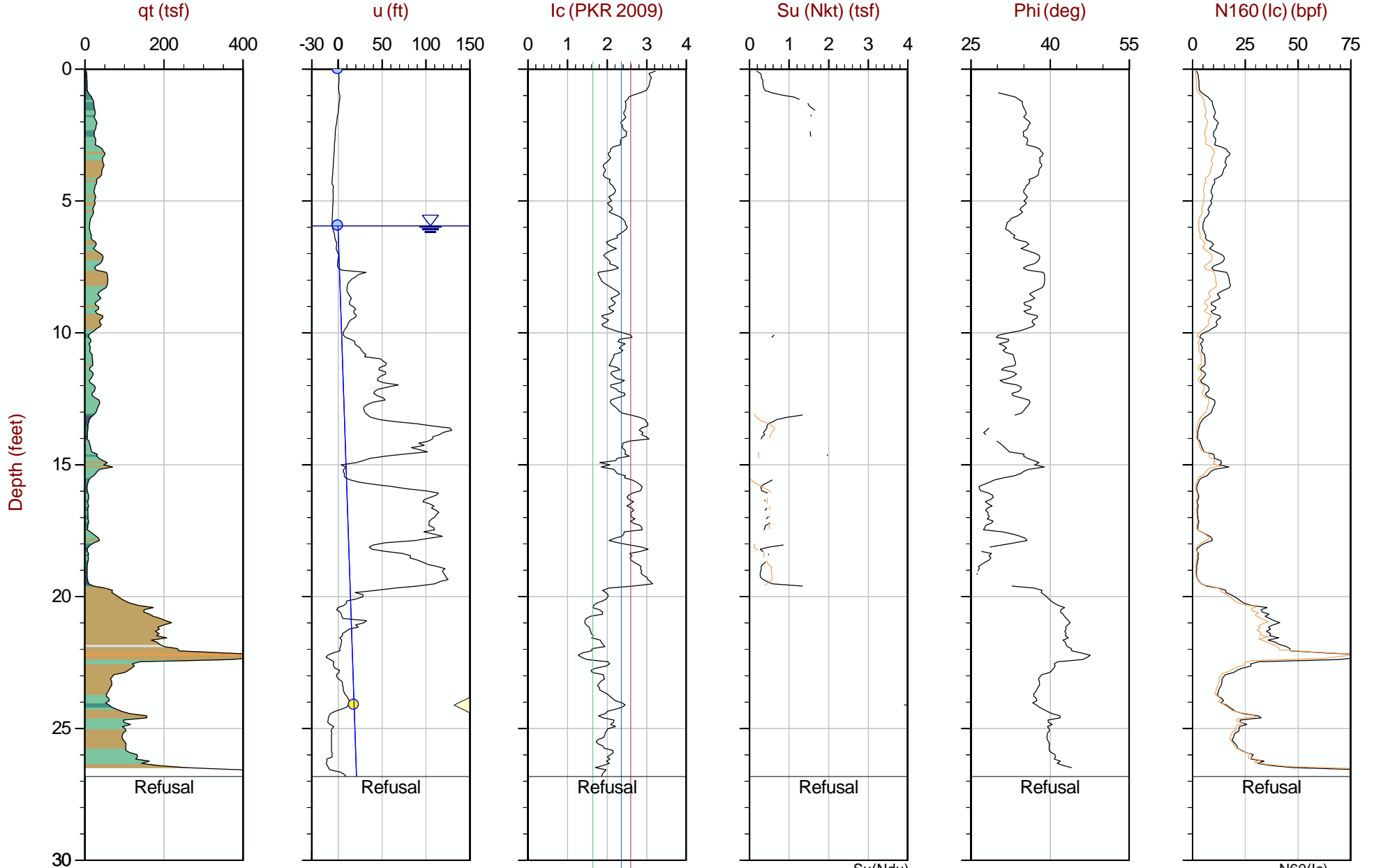
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 08:32  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-312  
Cone: 604:T1500F15U35



Max Depth: 8.175 m / 26.82 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-312.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782765m E: 406355m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◁ PPD, Ueq achieved ▷ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

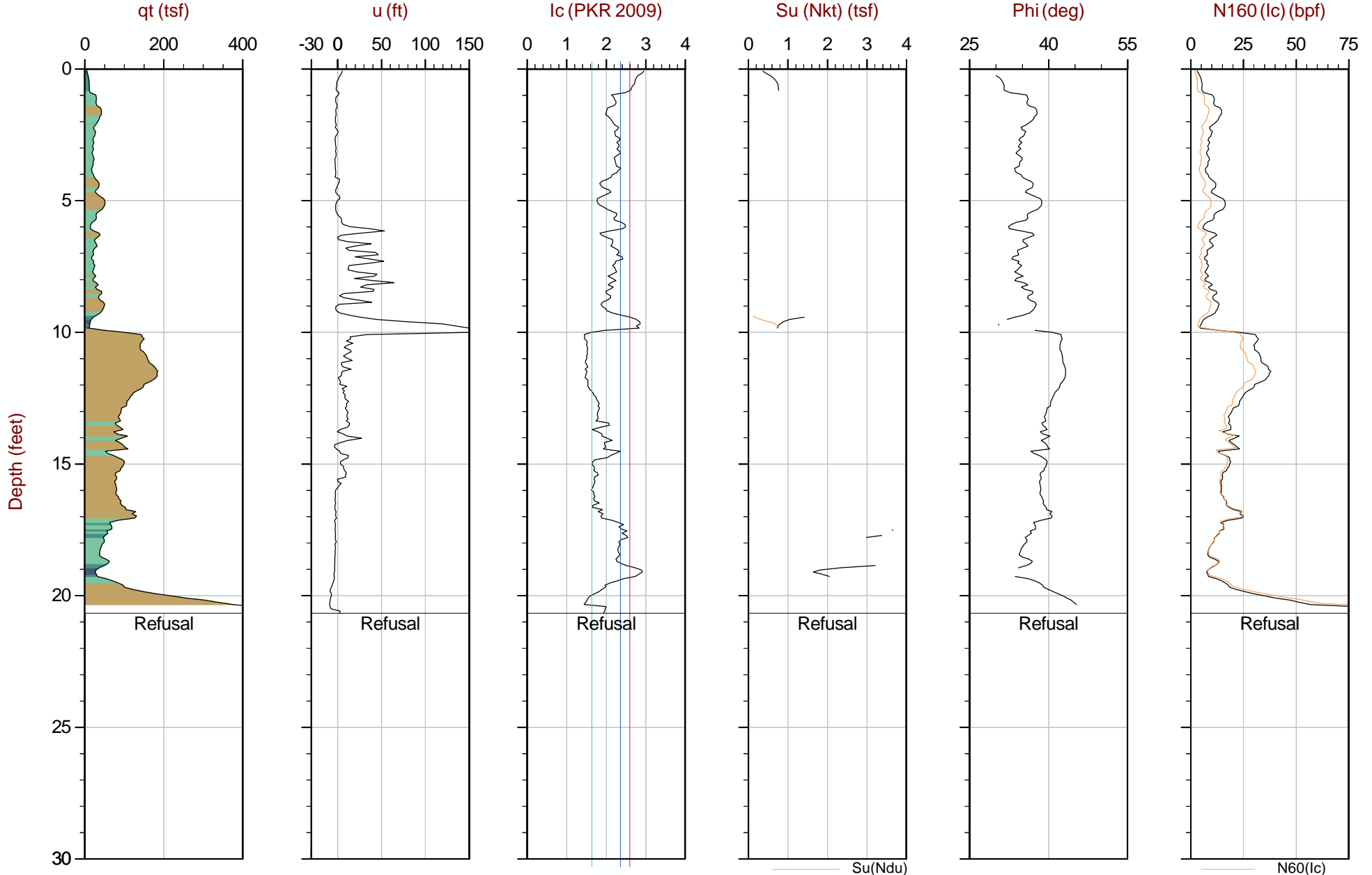




**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 11:06  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-325  
Cone: 606:T1500F15U35



Max Depth: 6.300 m / 20.67 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-325.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782627m E: 406459m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◀ PPD, Ueq achieved ◁ PPD, Ueq not achieved

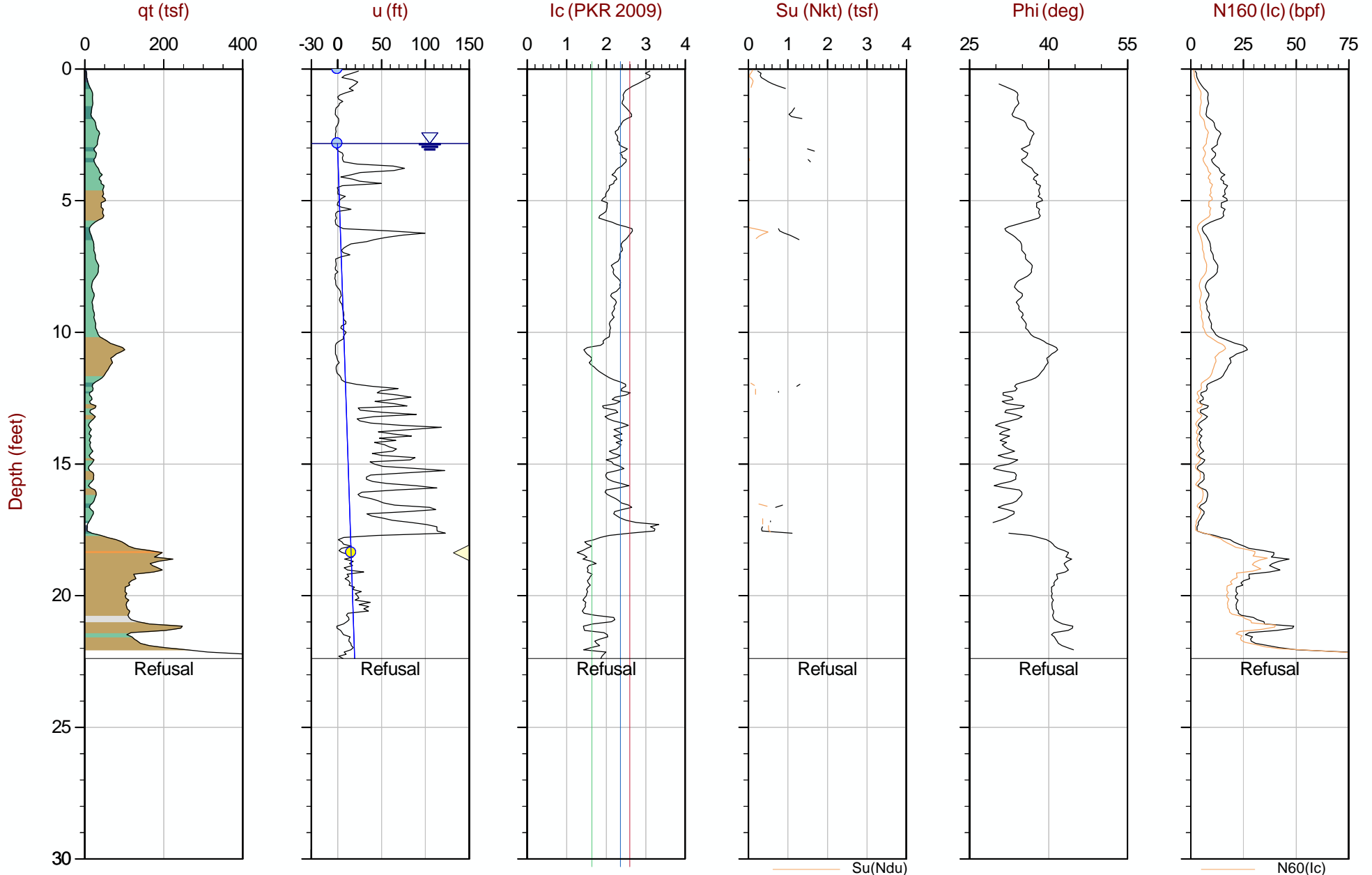
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 10:06  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-327  
Cone: 606:T1500F15U35



Max Depth: 6.825 m / 22.39 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-327.COR  
Unit Wt: SBTQn (PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782553m E: 406579m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◁ PPD, Ueq achieved ▷ PPD, Ueq not achieved

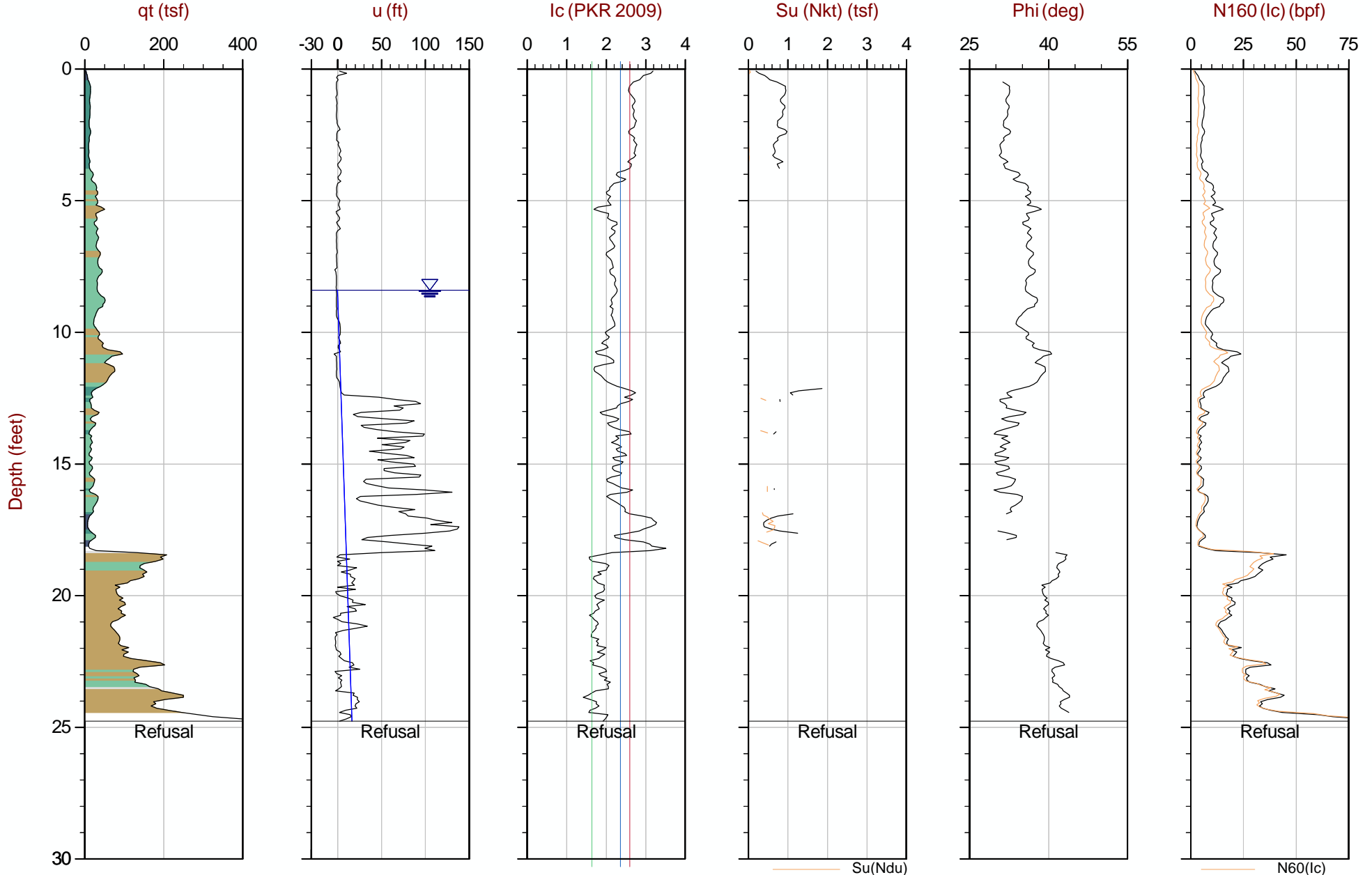
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 09:35  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-329  
Cone: 606:T1500F15U35



Max Depth: 7.550 m / 24.77 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-329.COR  
Unit Wt: SBTQtn (PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782556m E: 406475m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◁ PPD, Ueq achieved ▷ PPD, Ueq not achieved

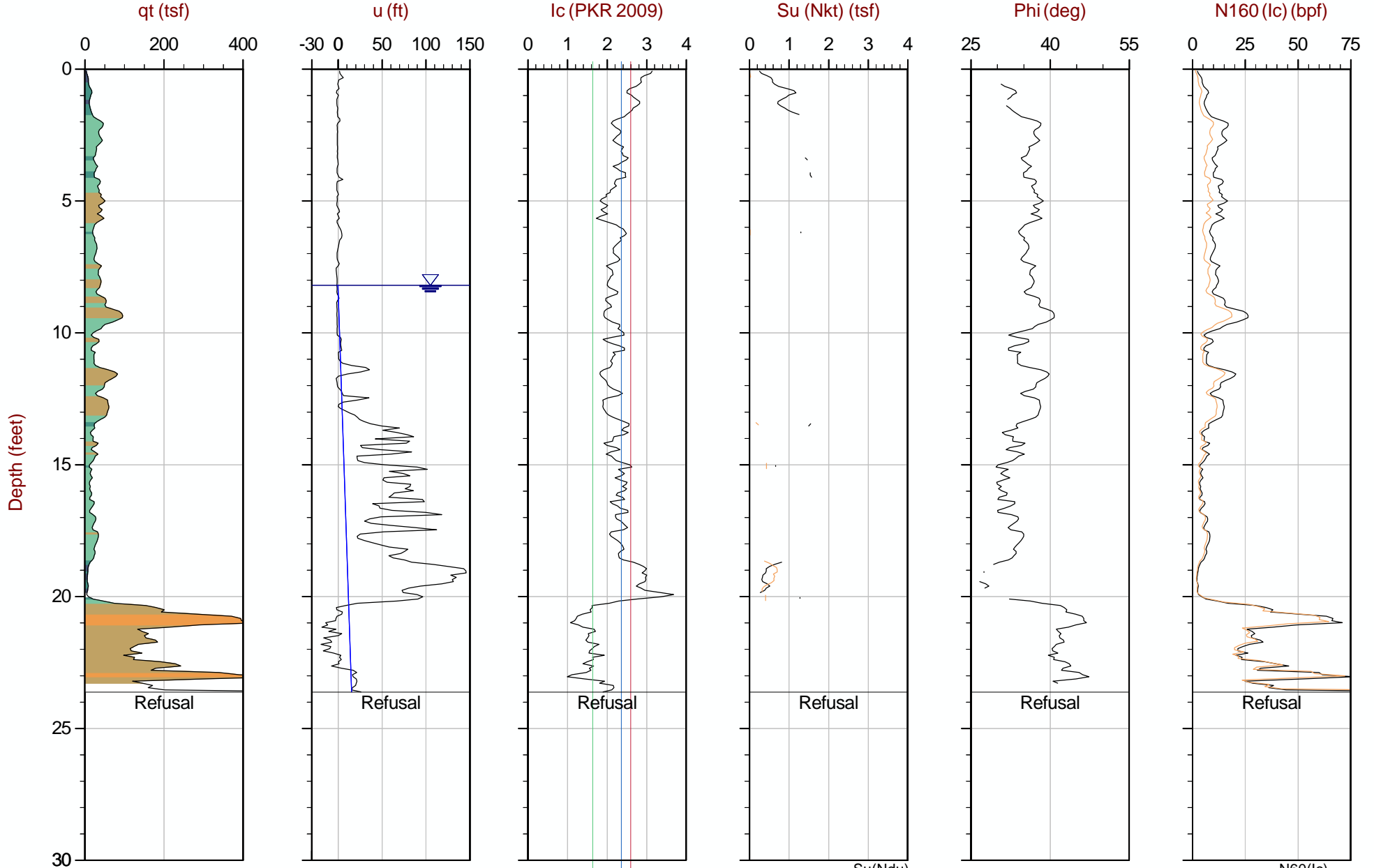
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 08:46  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-330  
Cone: 606:T1500F15U35



Max Depth: 7.200 m / 23.62 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-330.COR  
Unit Wt: SBTQtn (PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782560m E: 406351m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

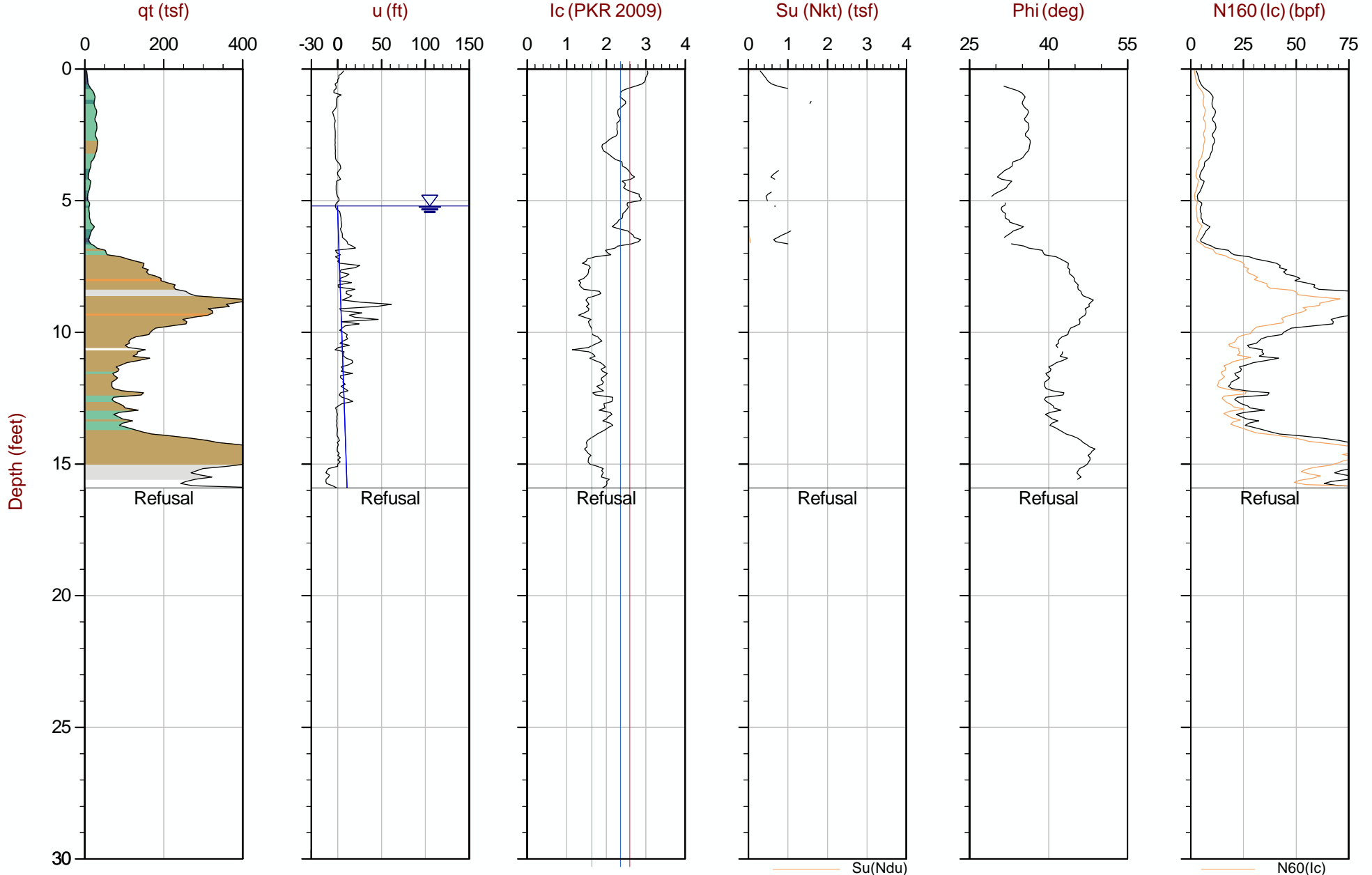
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 07:24  
Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-332  
Cone: 606:T1500F15U35



Max Depth: 4.850 m / 15.91 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_SPB-332.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782558m E: 406102m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◁ PPD, Ueq achieved   ◁ PPD, Ueq not achieved

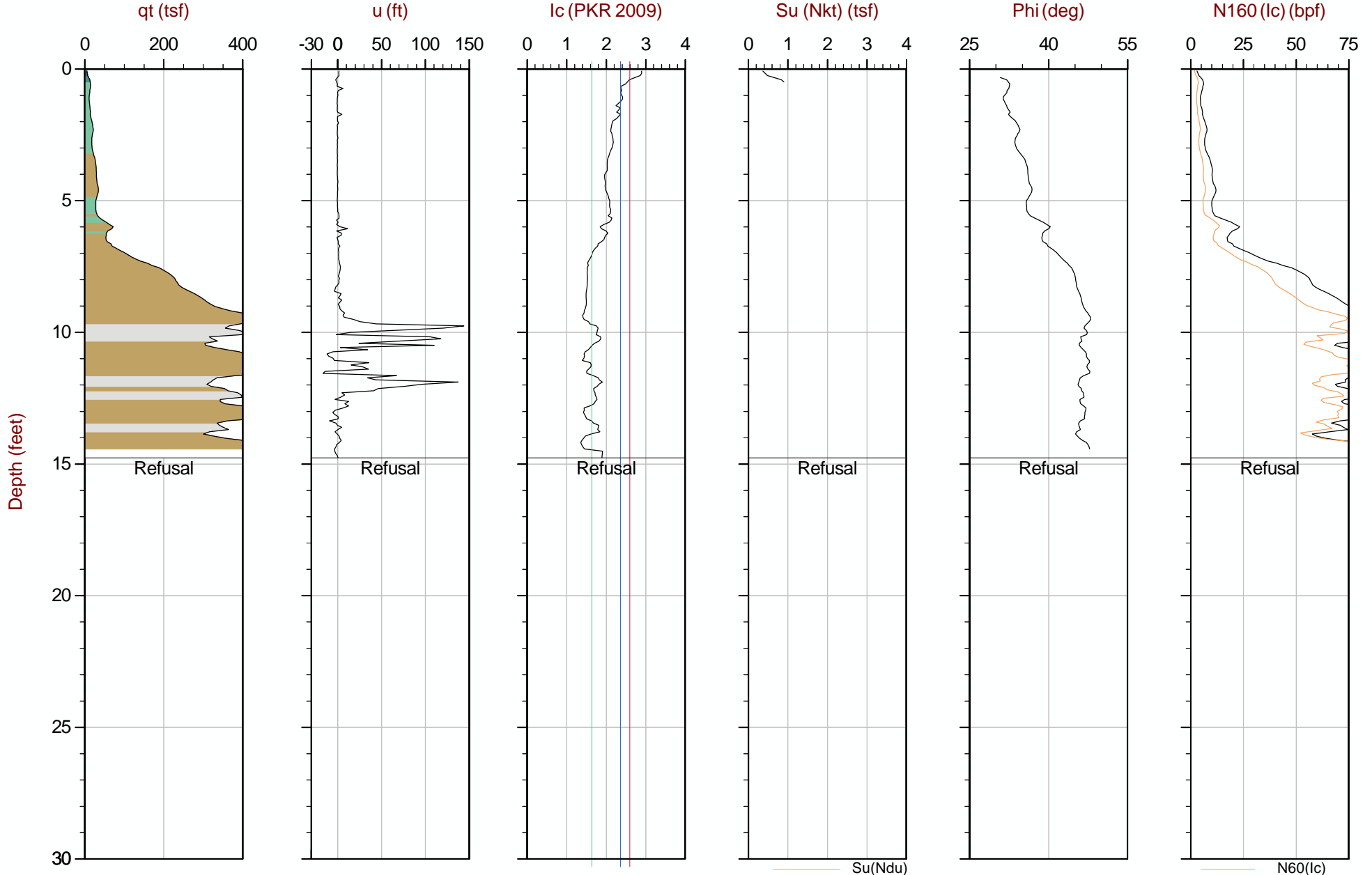
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 16:22  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-345  
Cone: 606:T1500F15U35



Max Depth: 4.500 m / 14.76 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-345.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782374m E: 406153m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

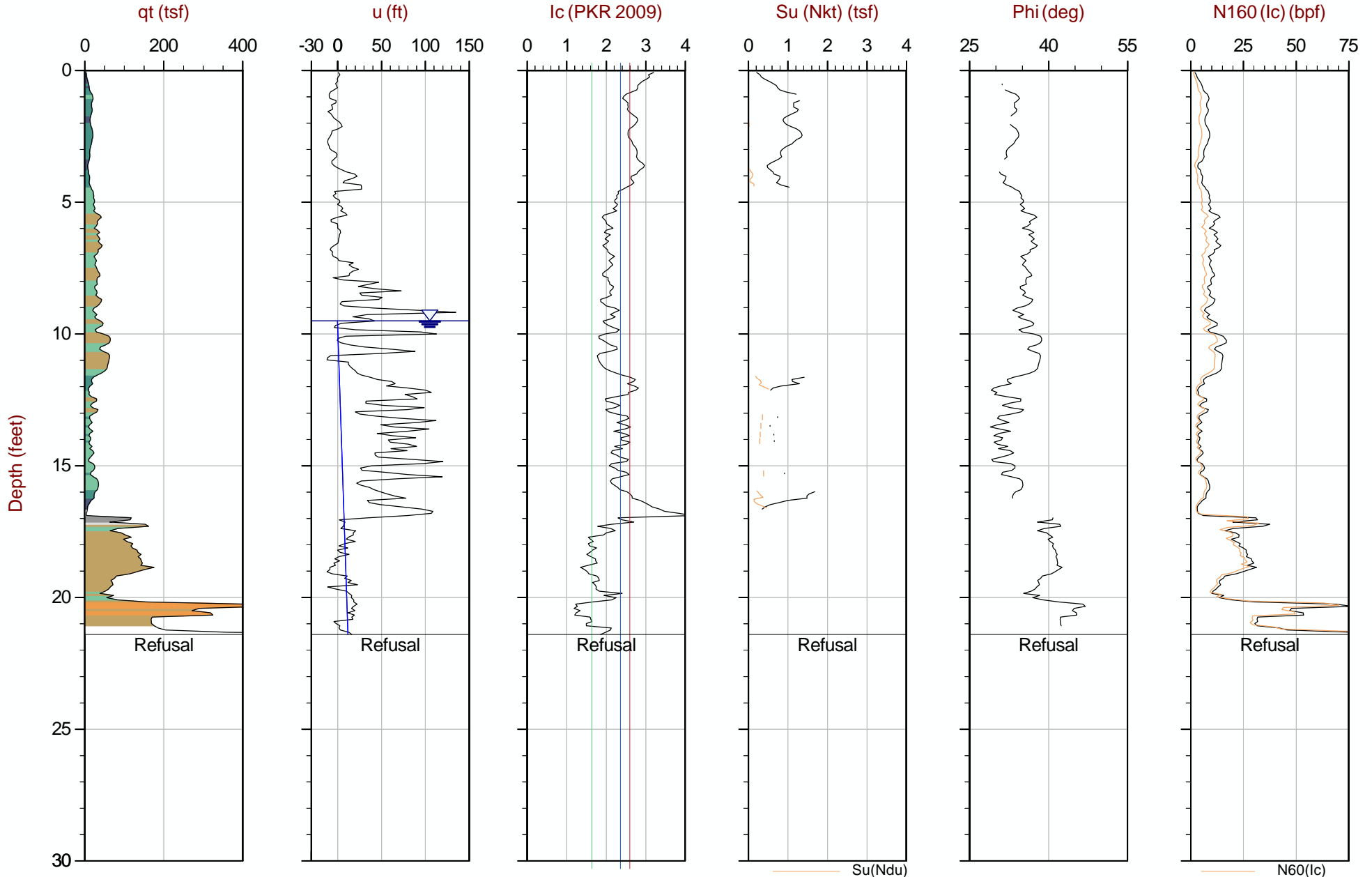
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 15:44  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-351  
Cone: 606:T1500F15U35



Max Depth: 6.525 m / 21.41 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-351.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782409m E: 406505m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

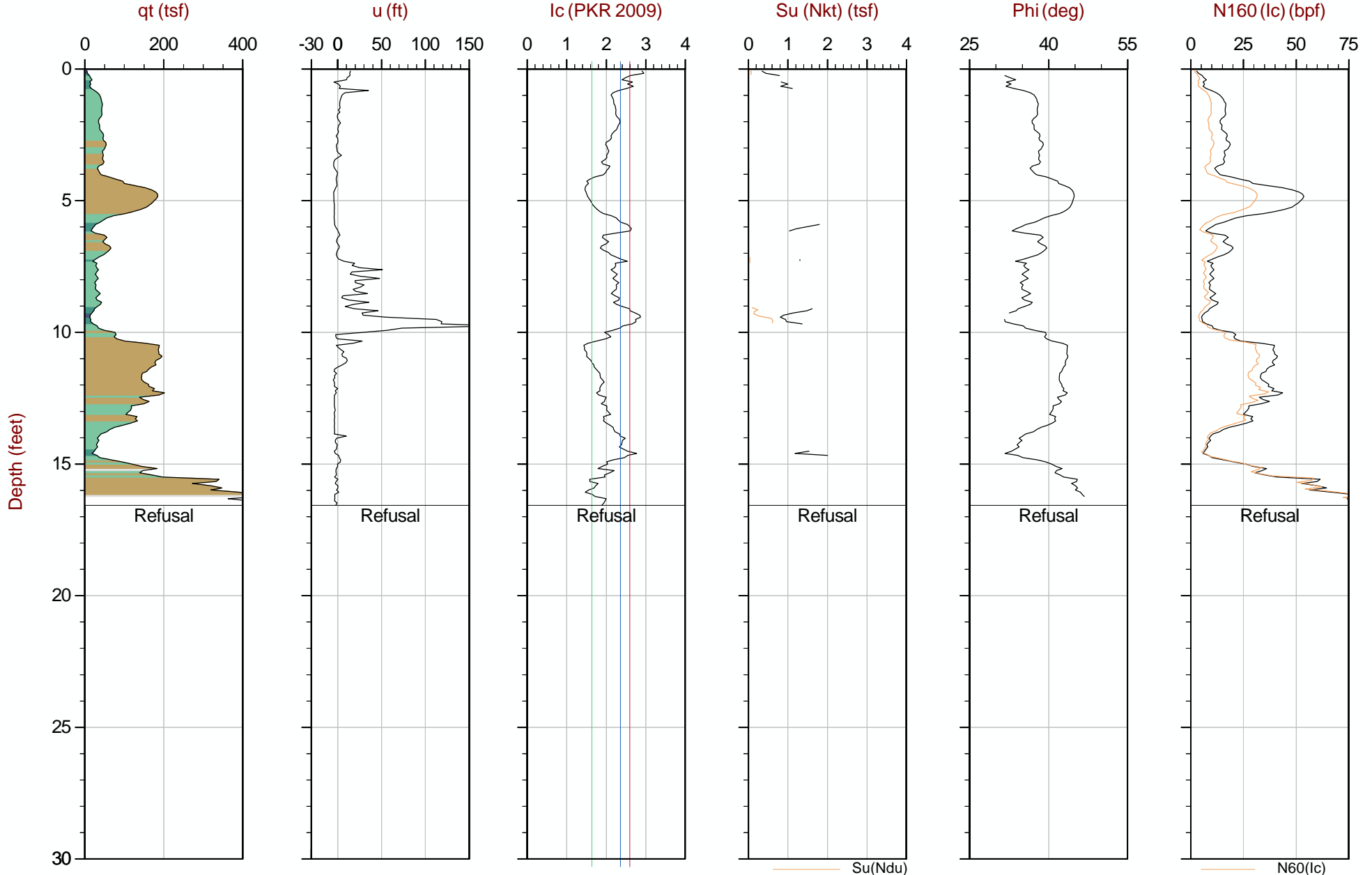
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 15:41  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-360  
Cone: 606:T1500F15U35



Max Depth: 5.050 m / 16.57 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-360.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782560m E: 405998m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

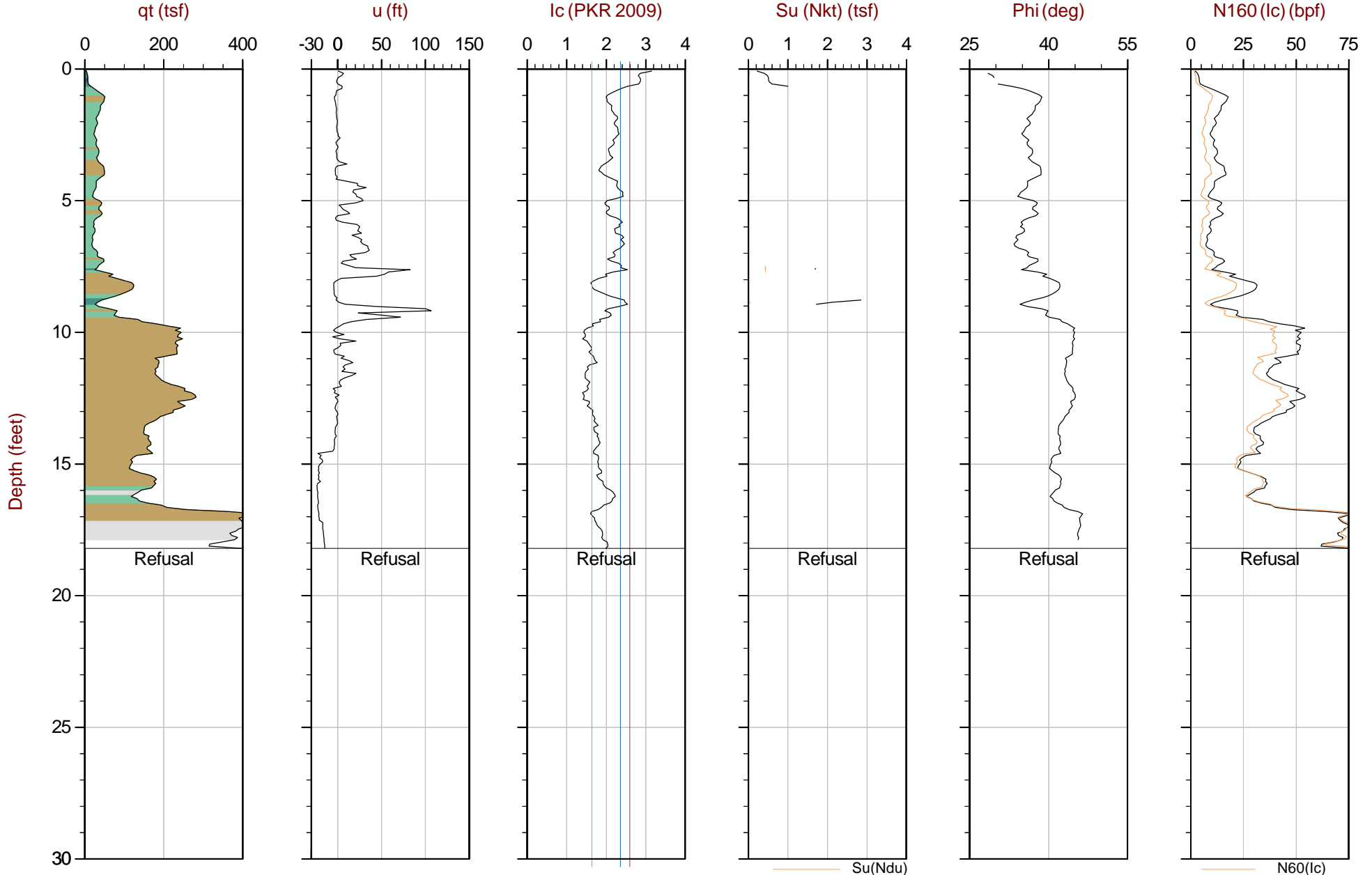




**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 15:11  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-362  
Cone: 606:T1500F15U35



Max Depth: 5.550 m / 18.21 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-362.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782651m E: 405887m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◀ PPD, Ueq achieved ◁ PPD, Ueq not achieved

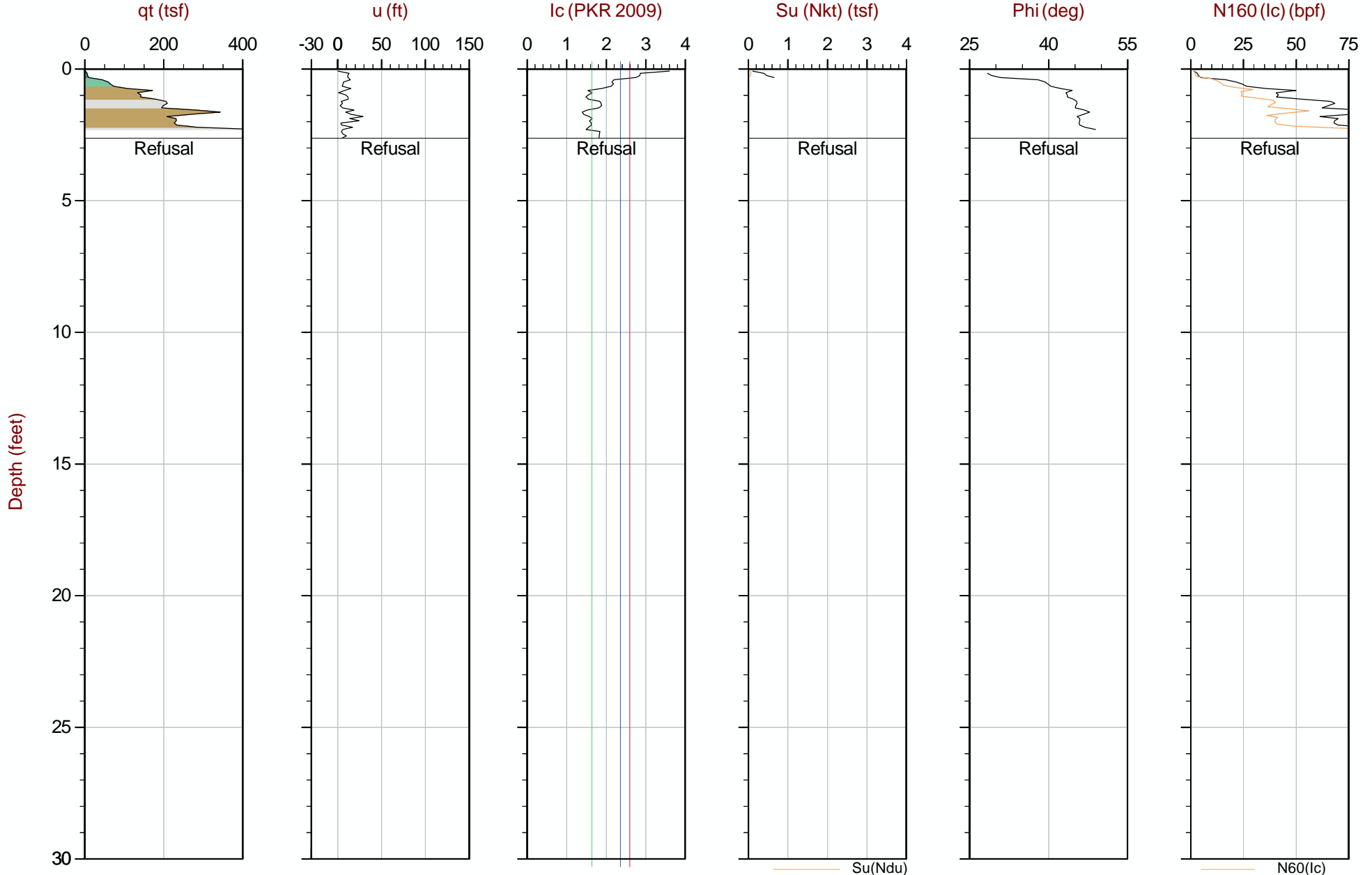
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 14:34  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-365  
Cone: 606:T1500F15U35



Max Depth: 0.800 m / 2.62 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-365.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782724m E: 405704m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

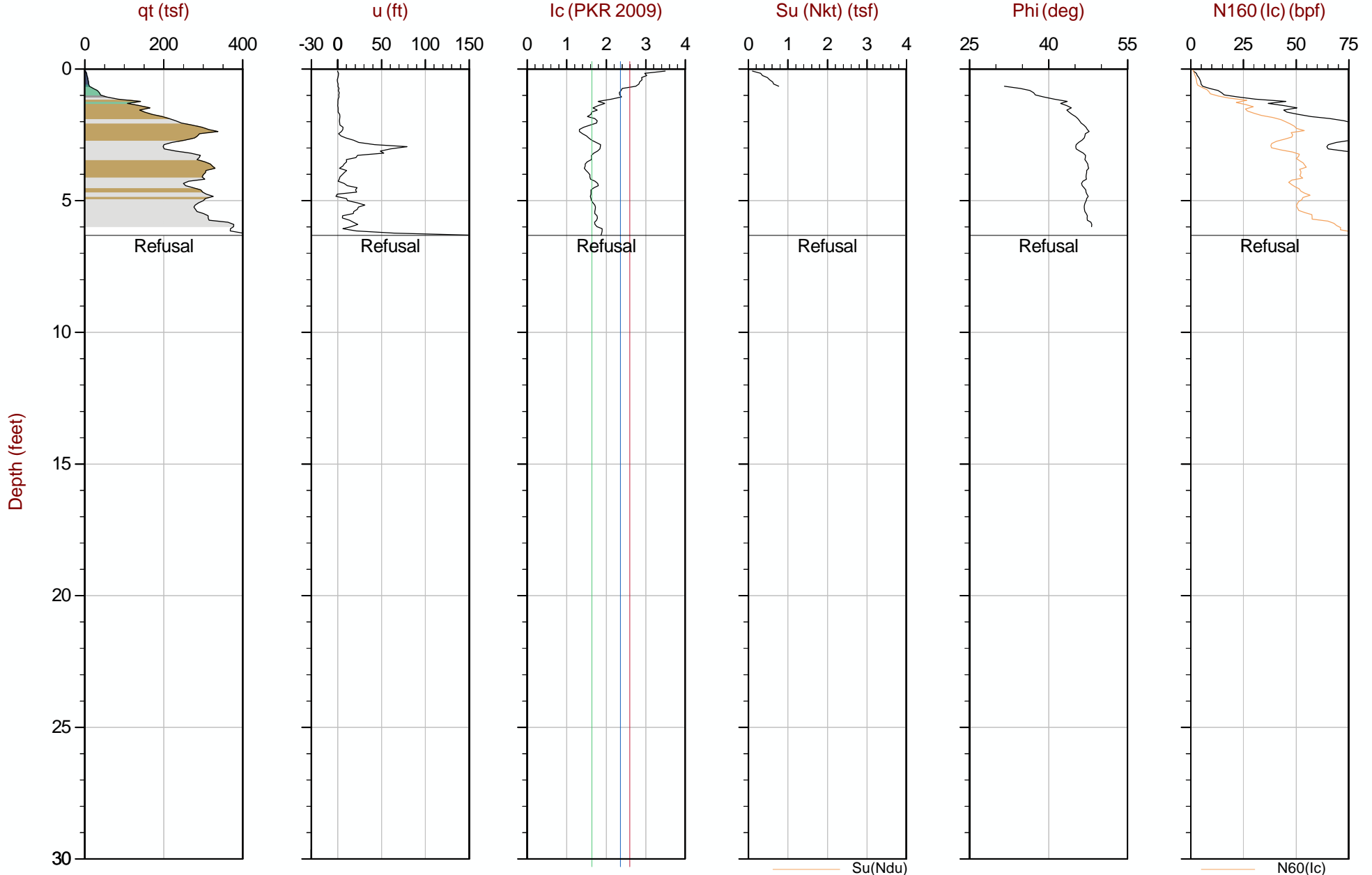
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 14:44  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-365A  
Cone: 606:T1500F15U35



Max Depth: 1.925 m / 6.32 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-365A.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782716m E: 405705m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◀ PPD, Ueq achieved   ◀ PPD, Ueq not achieved

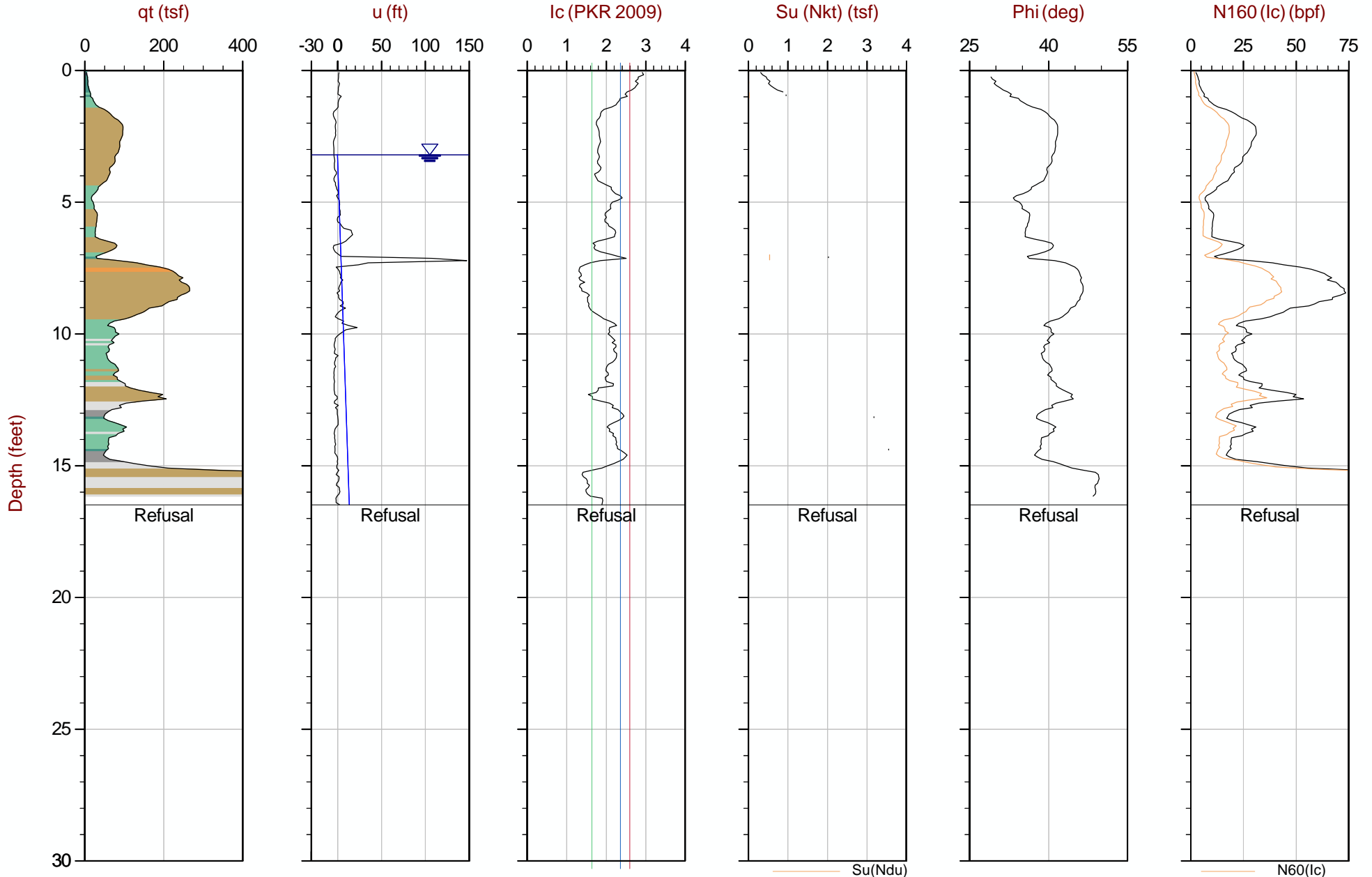
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 12:53  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-371  
Cone: 606:T1500F15U35



Max Depth: 5.025 m / 16.49 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-371.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782809m E: 405685m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

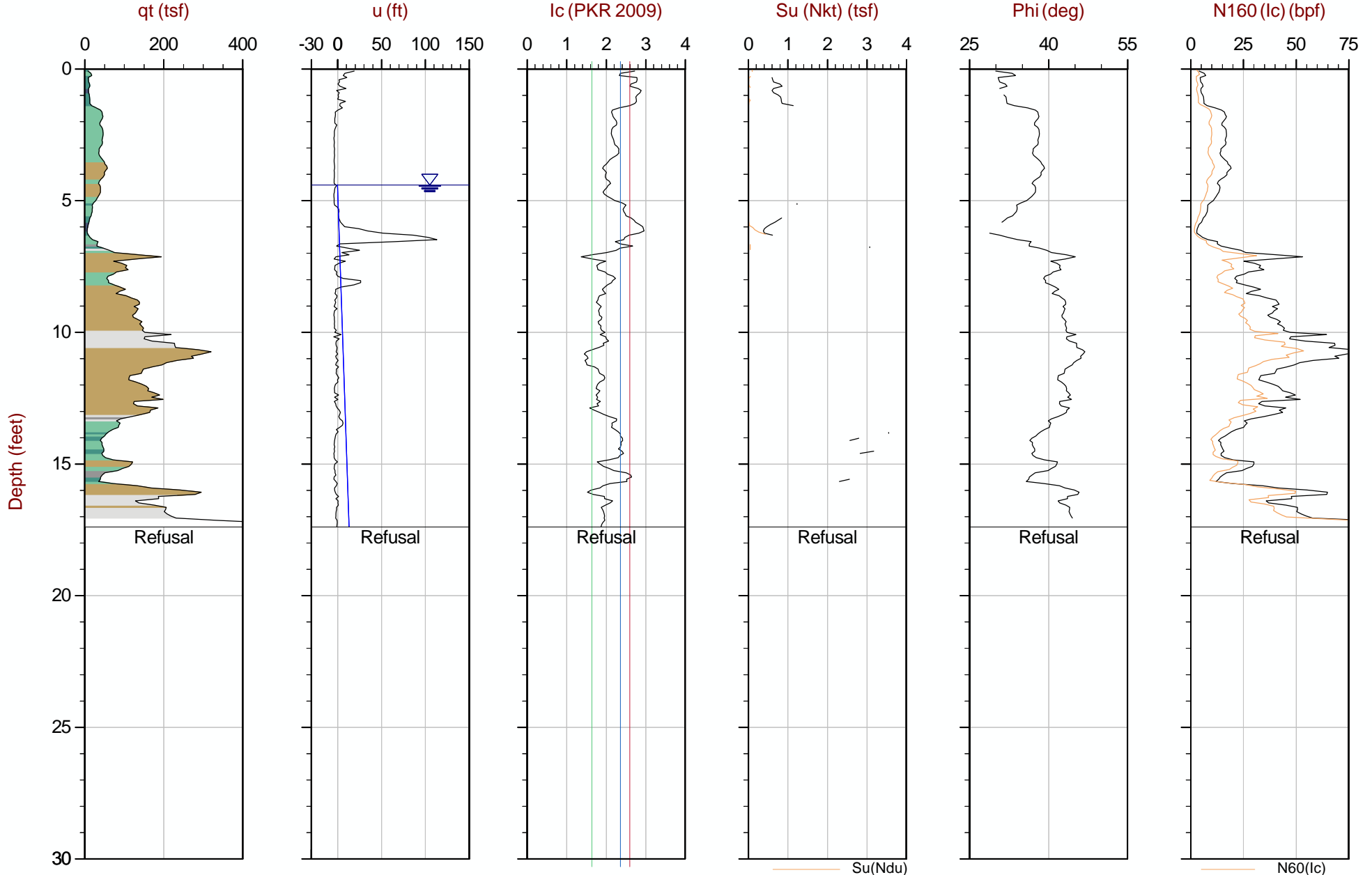
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 13:25  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-372  
Cone: 606:T1500F15U35



Max Depth: 5.300 m / 17.39 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-372.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782756m E: 405814m

— Hydrostatic Line ● Ueq ● Assumed Ueq ◁ PPD, Ueq achieved ▷ PPD, Ueq not achieved

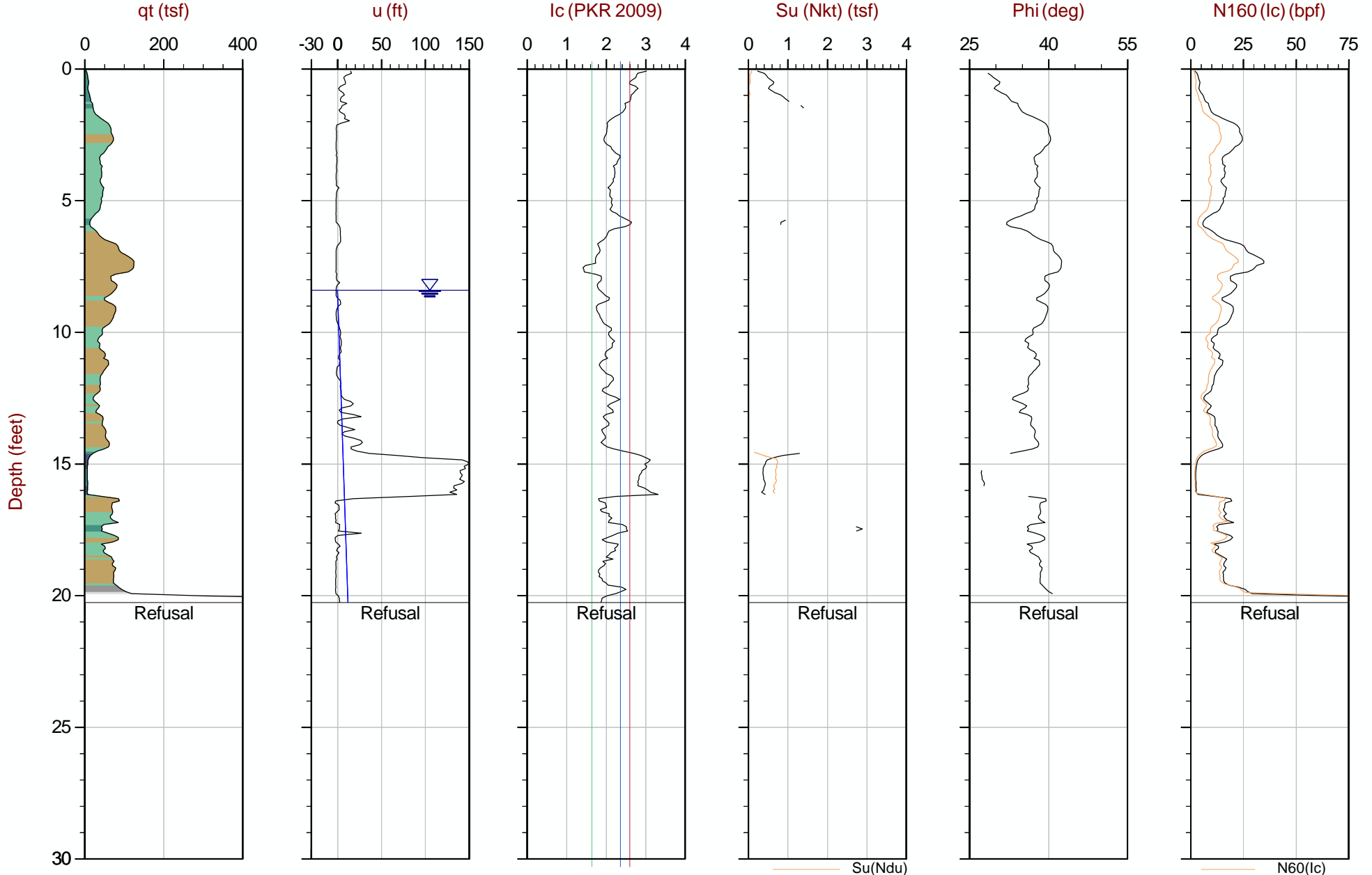
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 12:15  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-381  
Cone: 606:T1500F15U35



Max Depth: 6.175 m / 20.26 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-381.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782851m E: 405725m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◁ PPD, Ueq achieved   ▷ PPD, Ueq not achieved

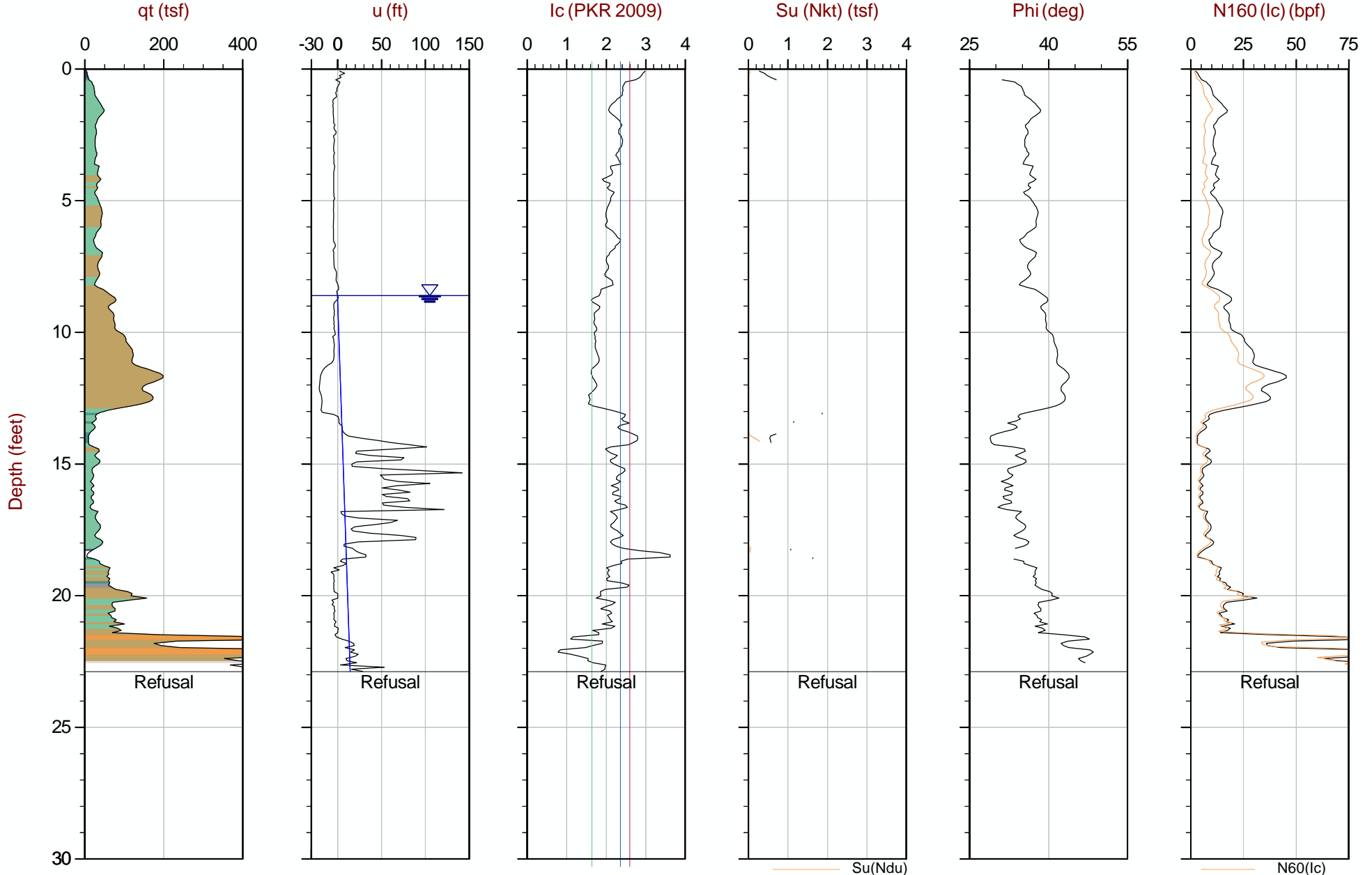
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 13:56  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-383  
Cone: 606:T1500F15U35



Max Depth: 6.975 m / 22.88 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_CPB-383.COR  
Unit Wt: SBTQtn(PKR2009)  
Su Nkt/Ndu: 15.0 / 6.0

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782758m E: 405878m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

## **Seismic Cone Penetration Test Plots**

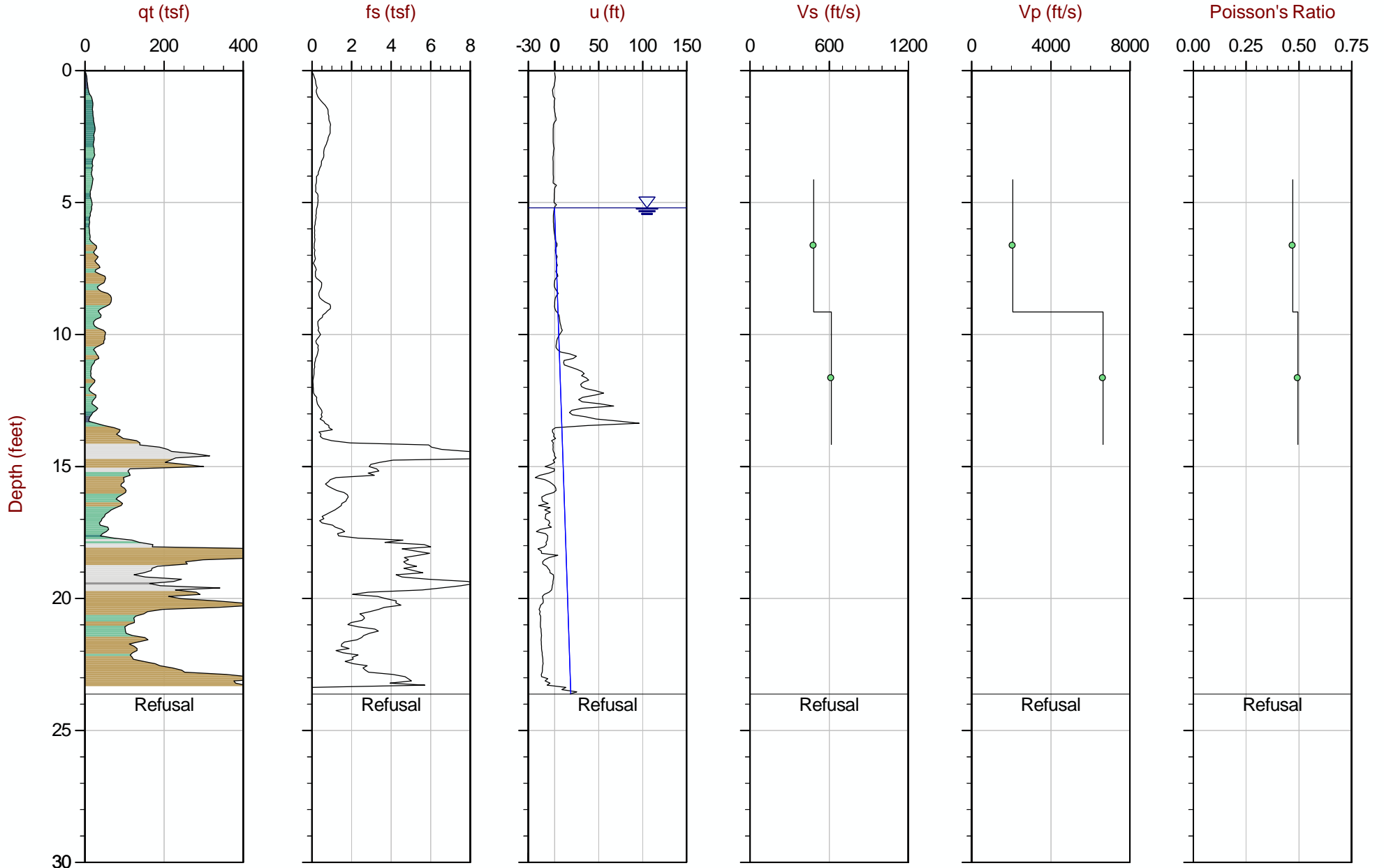




**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 13:08  
Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-228A  
Cone: 606:T1500F15U35



Max Depth: 7.200 m / 23.62 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_SPB-228A.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782805m E: 406616m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ▷ PPD, Ueq not achieved

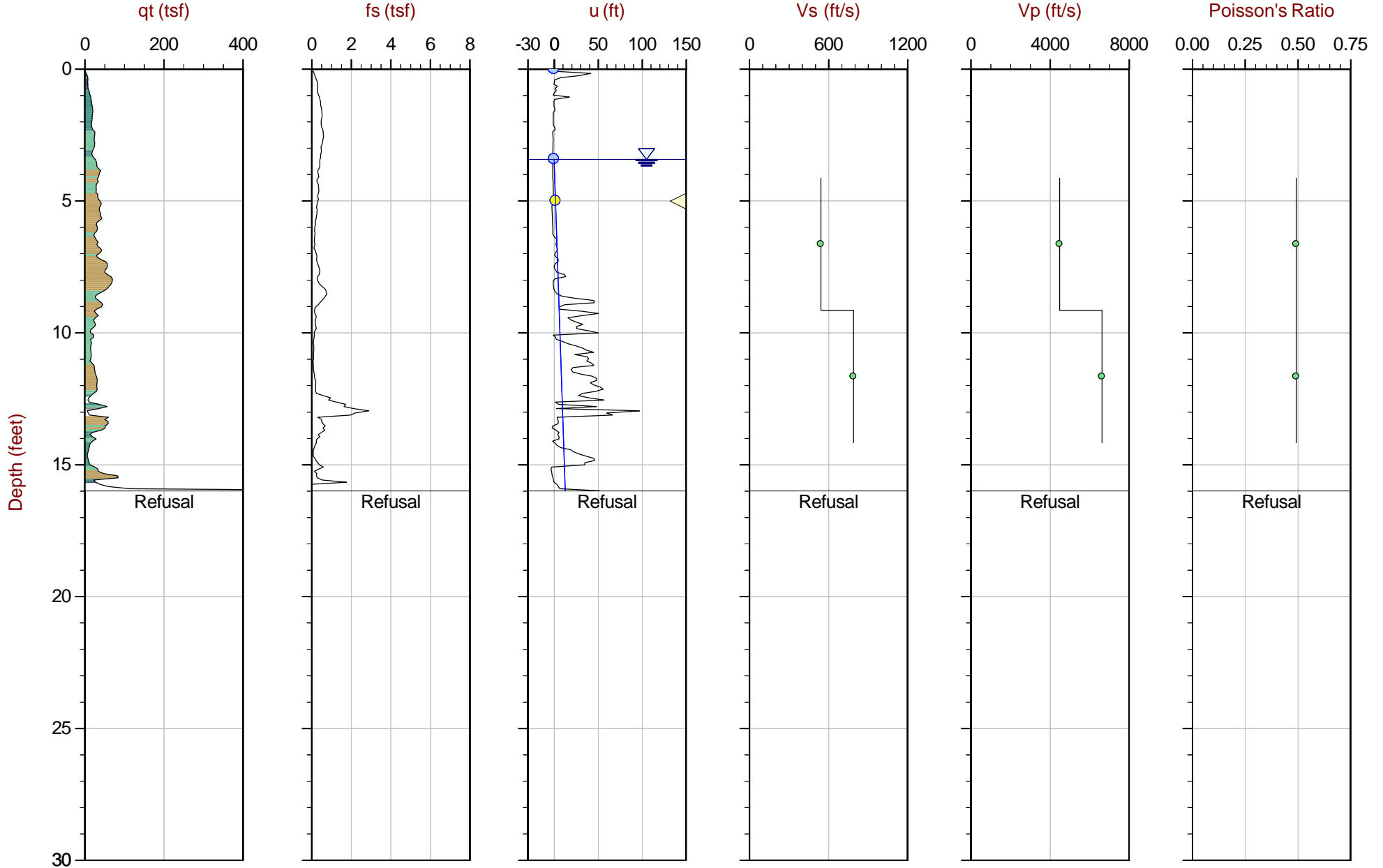
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 08:32  
Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-293  
Cone: 606:T1500F15U35



Max Depth: 4.875 m / 15.99 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_SPB-293.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4783206m E: 406149m

— Hydrostatic Line    ● Ueq    ● Assumed Ueq    ◁ PPD, Ueq achieved    ◁ PPD, Ueq not achieved

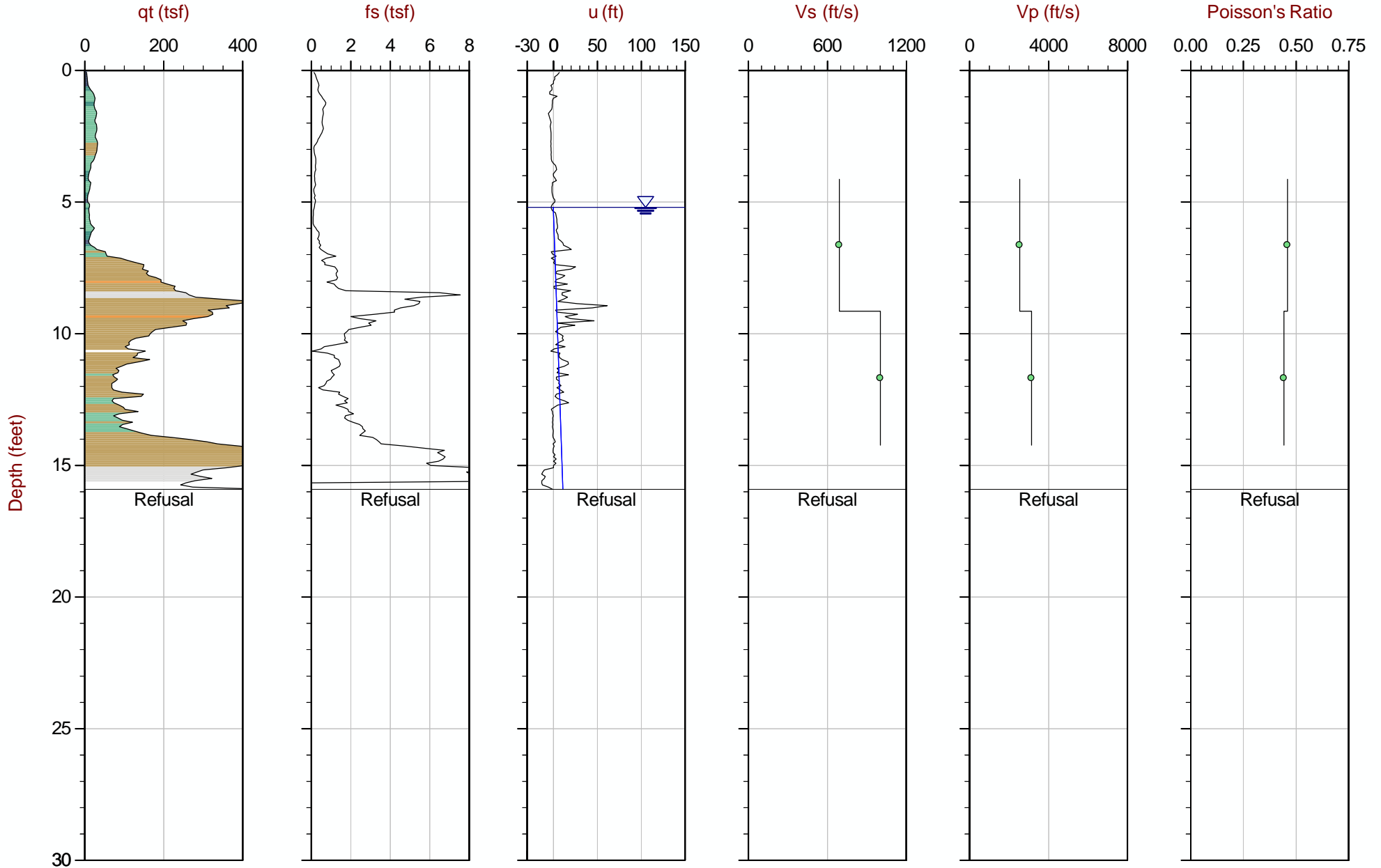
The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 07:24  
Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-332  
Cone: 606:T1500F15U35



Max Depth: 4.850 m / 15.91 ft  
Depth Inc: 0.025 m / 0.082 ft  
Avg Int: Every Point

File: 23-53-26729\_SPB-332.COR  
Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010  
Coords: UTM Zone 18 N: 4782558m E: 406102m

— Hydrostatic Line   ● Ueq   ● Assumed Ueq   ◁ PPD, Ueq achieved   ▷ PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

## **Seismic Cone Penetration Test Shear Wave (Vs) Traces**



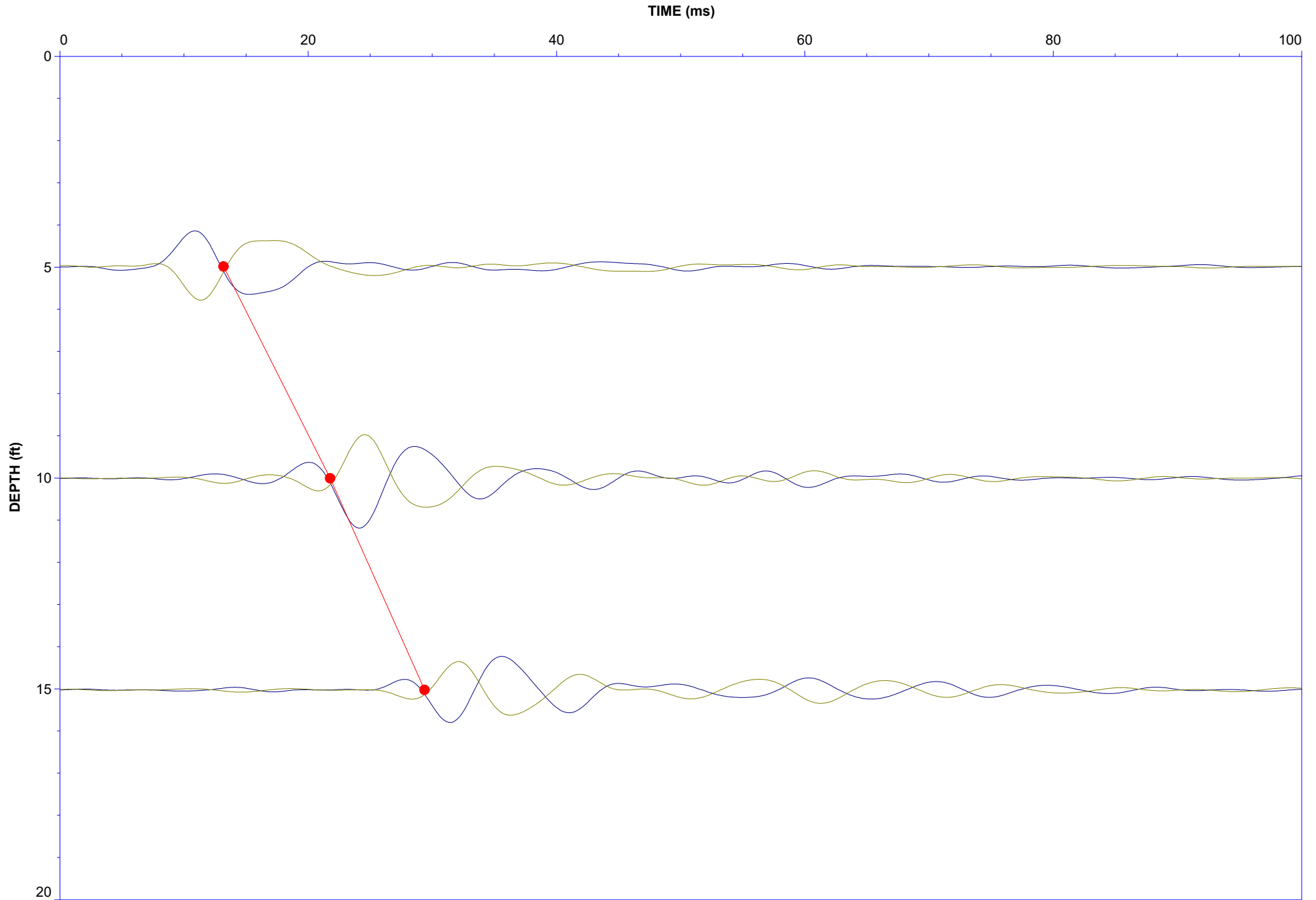
Job No: 23-53-26729  
Date: 27-Oct-2023

Client: CME Associates, Inc.

Project: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-228A

Filter: 0-250 Hz





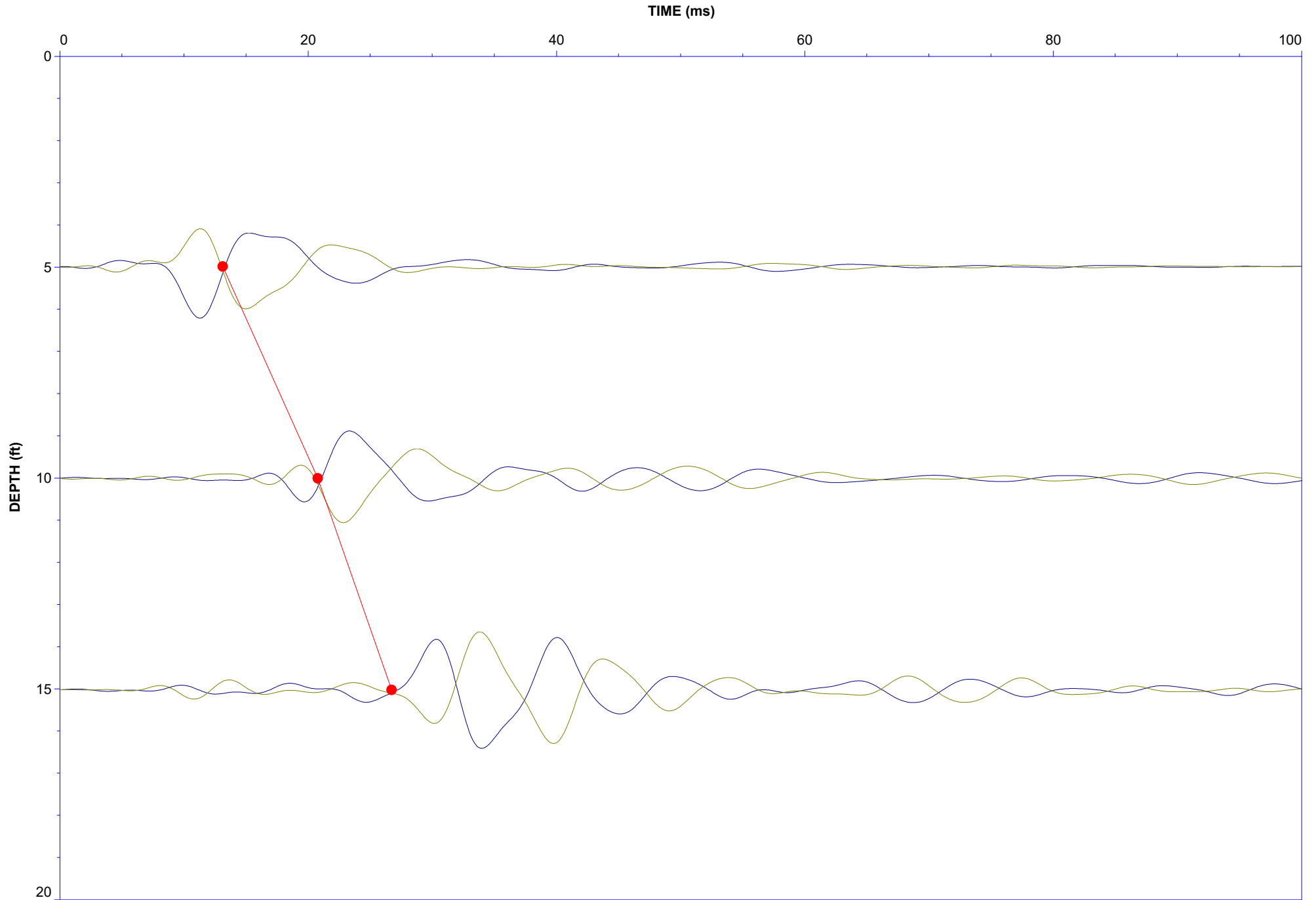
Job No: 23-53-26729  
Date: 27-Oct-2023

Client: CME Associates, Inc.

Project: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-293

Filter: 0-250 Hz





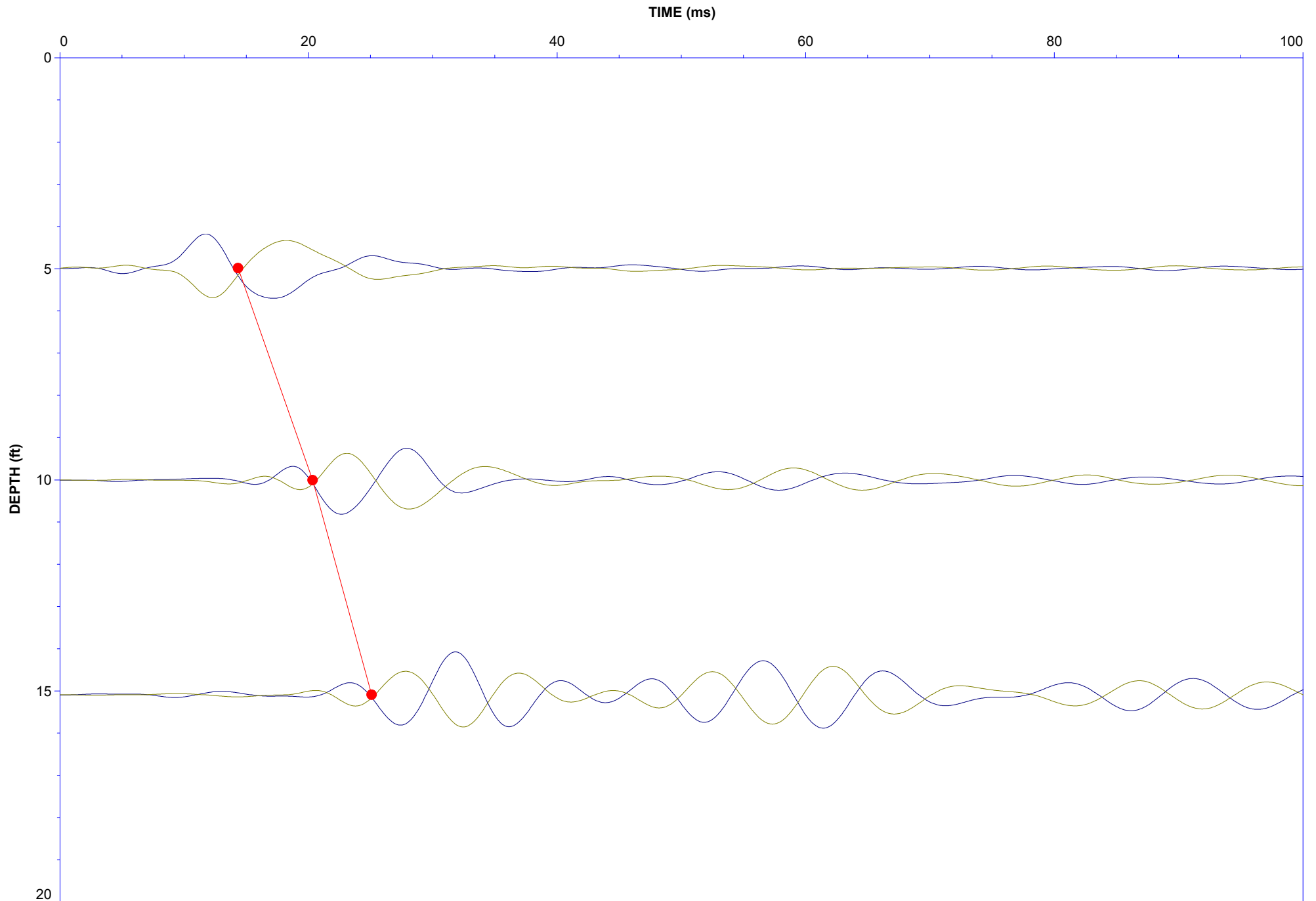
Job No: 23-53-26729  
Date: 28-Oct-2023

Client: CME Associates, Inc.

Project: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-332

Filter: 0-250 Hz



## Seismic Cone Penetration Test Shear Wave (Vs) Results





**Job No:** 23-53-26729  
**Client:** CME Associates, Inc.  
**Project:** Proposed Micron Plant, Clay, NY  
**Sounding ID:** SCPT23-B-228A  
**Date:** 27-Oct-2023

**Seismic Source:** Beam  
**Seismic Offset (ft):** 4.27  
**Source Depth (ft):** 0.00  
**Geophone Offset (ft):** 0.85

### SCPT<sub>u</sub> SHEAR WAVE VELOCITY TEST RESULTS - V<sub>s</sub>

Tip Depth (ft)	Geophone Depth (ft)	Ray Path (ft)	Ray Path Difference (ft)	Travel Time Interval (ms)	Interval Velocity (ft/s)
4.99	4.13	5.94			
10.01	9.15	10.10	4.16	8.59	484
15.03	14.17	14.80	4.70	7.60	618



**Job No:** 23-53-26729  
**Client:** CME Associates, Inc.  
**Project:** Proposed Micron Plant, Clay, NY  
**Sounding ID:** SCPT23-B-293  
**Date:** 27-Oct-2023

**Seismic Source:** Beam  
**Seismic Offset (ft):** 4.27  
**Source Depth (ft):** 0.00  
**Geophone Offset (ft):** 0.85

### SCPT<sub>u</sub> SHEAR WAVE VELOCITY TEST RESULTS - V<sub>s</sub>

Tip Depth (ft)	Geophone Depth (ft)	Ray Path (ft)	Ray Path Difference (ft)	Travel Time Interval (ms)	Interval Velocity (ft/s)
4.99	4.13	5.94			
10.01	9.15	10.10	4.16	7.66	543
15.03	14.17	14.80	4.70	5.95	790



**Job No:** 23-53-26729  
**Client:** CME Associates, Inc.  
**Project:** Proposed Micron Plant, Clay, NY  
**Sounding ID:** SCPT23-B-332  
**Date:** 28-Oct-2023

**Seismic Source:** Beam  
**Seismic Offset (ft):** 4.27  
**Source Depth (ft):** 0.00  
**Geophone Offset (ft):** 0.85

### SCPT<sub>u</sub> SHEAR WAVE VELOCITY TEST RESULTS - V<sub>s</sub>

Tip Depth (ft)	Geophone Depth (ft)	Ray Path (ft)	Ray Path Difference (ft)	Travel Time Interval (ms)	Interval Velocity (ft/s)
4.99	4.13	5.94			
10.01	9.15	10.10	4.16	6.01	692
15.09	14.24	14.87	4.77	4.74	1005

## Seismic Cone Penetration Test Compression Wave (Vp) Traces



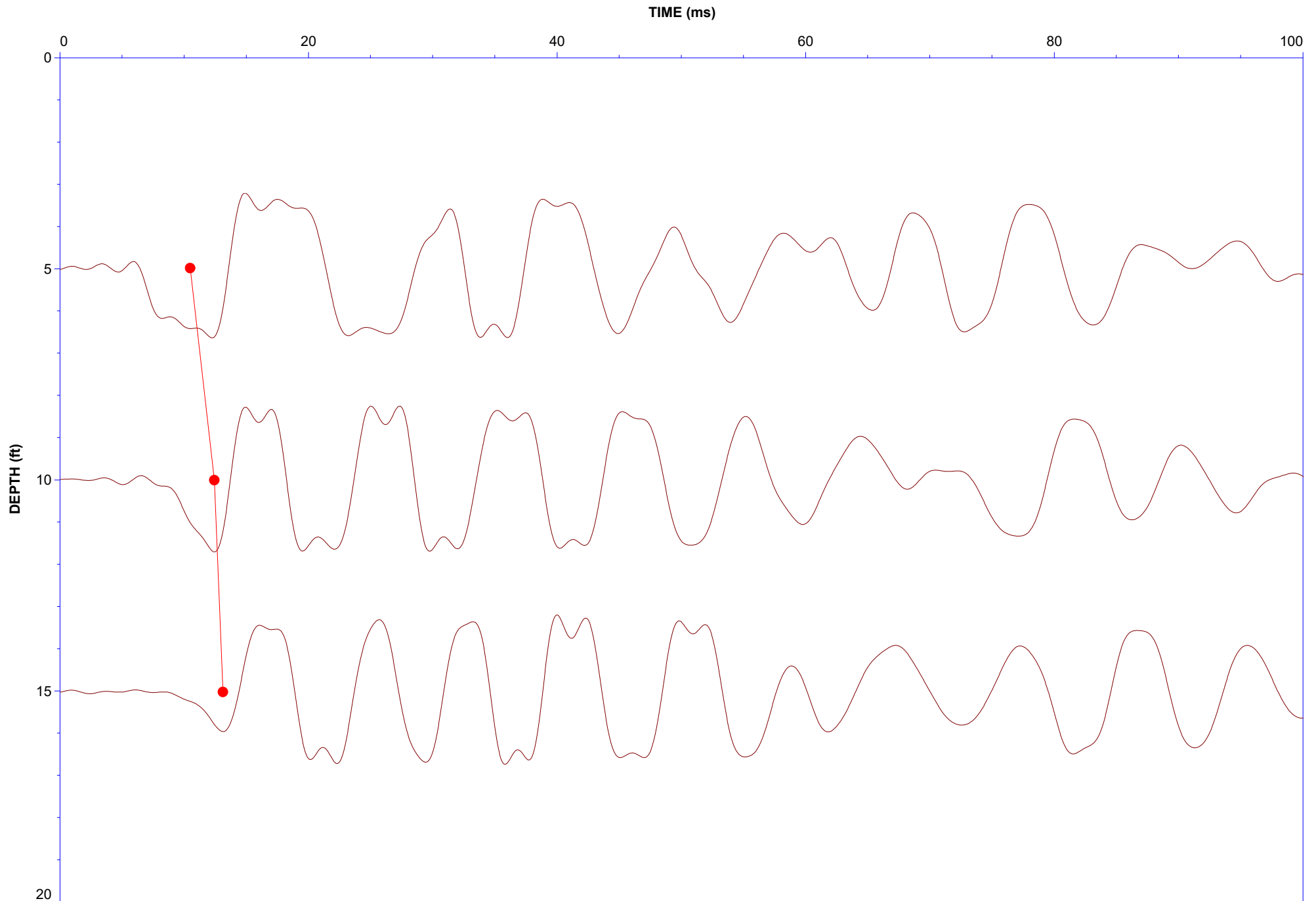
Job No: 23-53-26729  
Date: 27-Oct-2023

Client: CME Associates, Inc.

Project: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-228A

Filter: 0-400 Hz





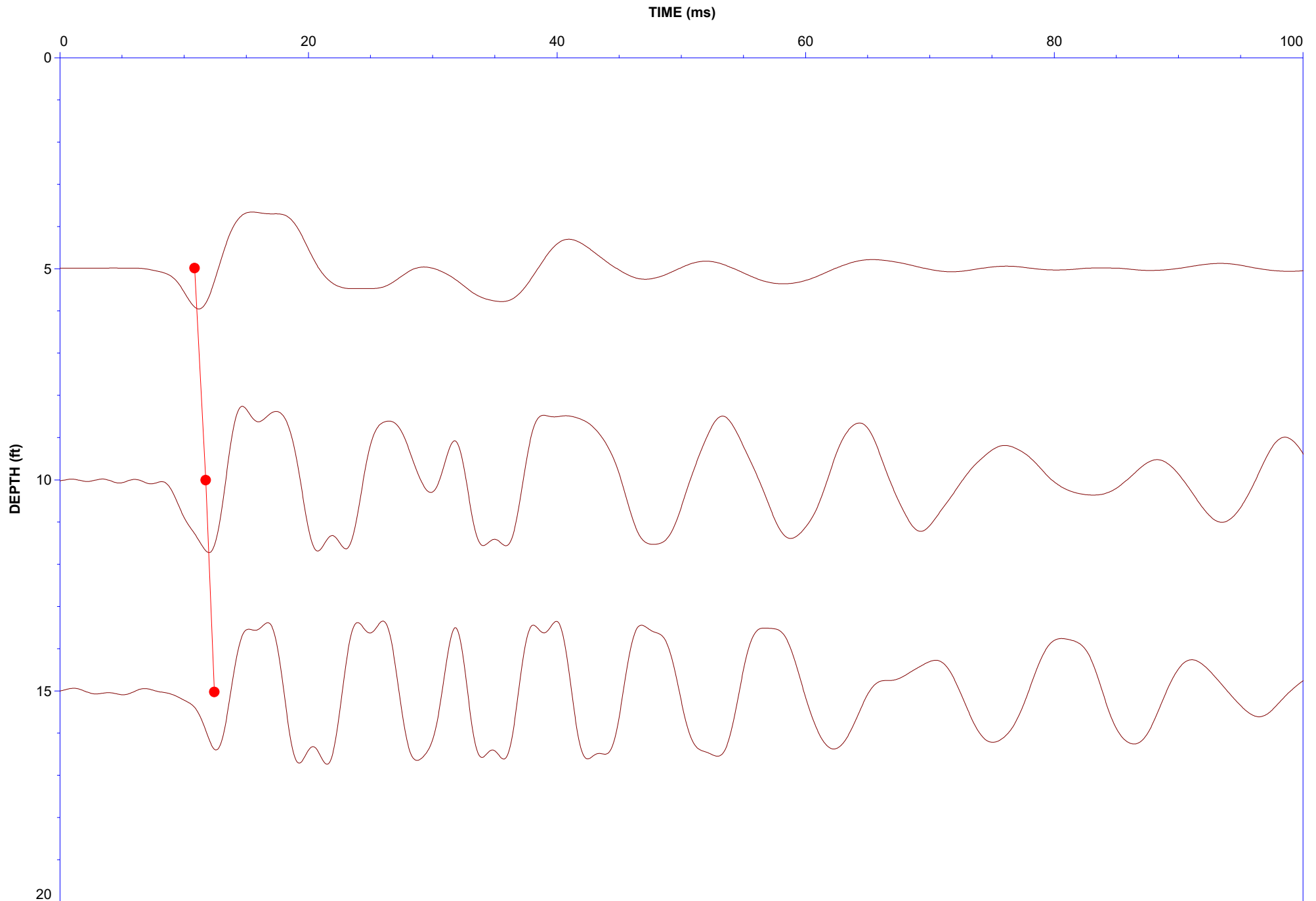
Job No: 23-53-26729  
Date: 27-Oct-2023

Client: CME Associates, Inc.

Project: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-293

Filter: 0-400 Hz





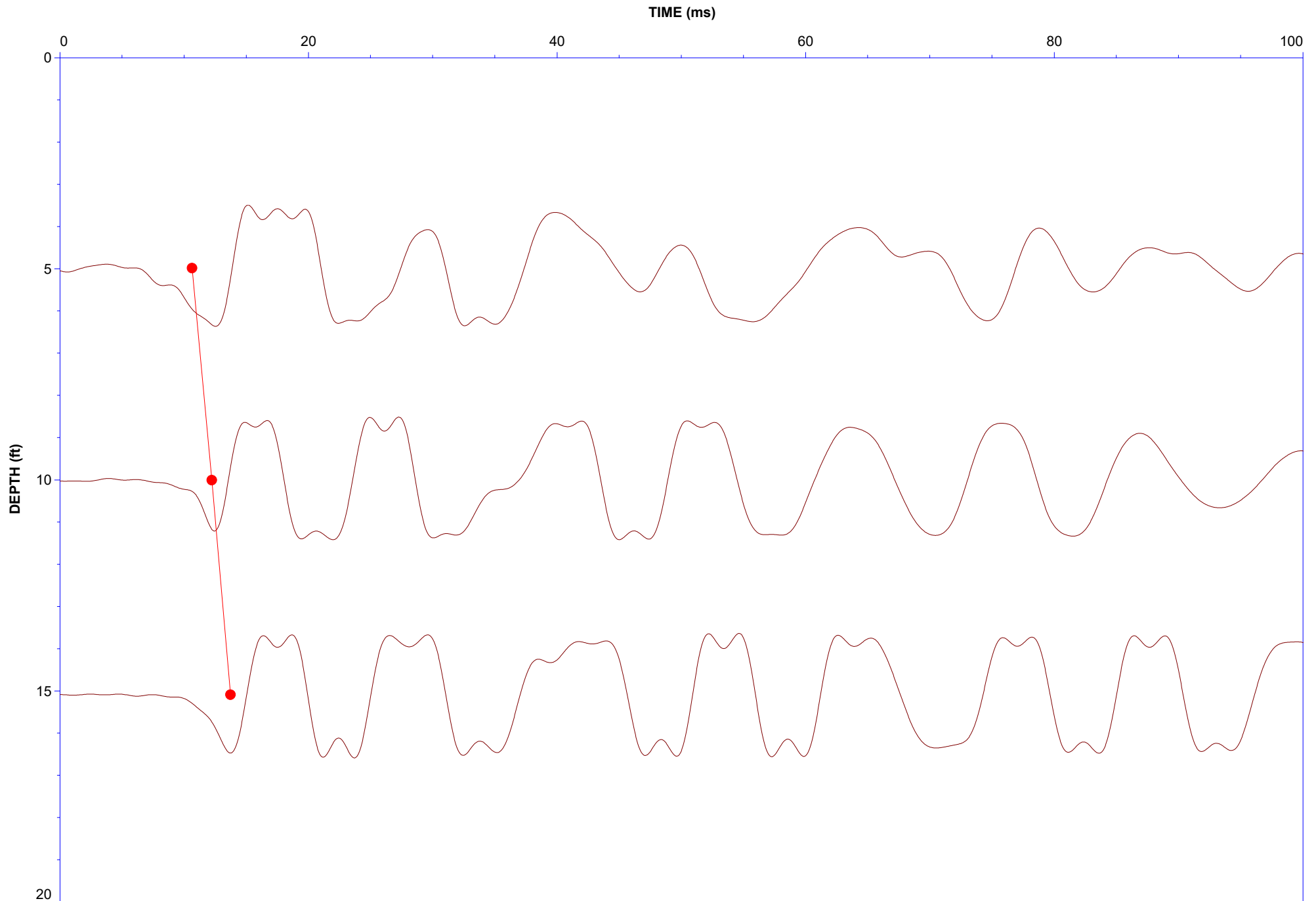
Job No: 23-53-26729  
Date: 28-Oct-2023

Client: CME Associates, Inc.

Project: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-332

Filter: 0-400 Hz



## Seismic Cone Penetration Test Compression Wave (Vp) Results





**Job No:** 23-53-26729  
**Client:** CME Associates, Inc.  
**Project:** Proposed Micron Plant, Clay, NY  
**Sounding ID:** SCPT23-B-228A  
**Date:** 27-Oct-2023

**Seismic Source:** Plate  
**Seismic Offset (ft):** 4.59  
**Source Depth (ft):** 0.00  
**Geophone Offset (ft):** 0.85

### SCPTu COMPRESSION WAVE VELOCITY TEST RESULTS - Vp

Tip Depth (ft)	Geophone Depth (ft)	Ray Path (ft)	Ray Path Difference (ft)	Travel Time Interval (ms)	Interval Velocity (ft/s)
4.99	4.13	6.18			
10.01	9.15	10.24	4.06	1.94	2089
15.03	14.17	14.90	4.66	0.70	6654



**Job No:** 23-53-26729  
**Client:** CME Associates, Inc.  
**Project:** Proposed Micron Plant, Clay, NY  
**Sounding ID:** SCPT23-B-293  
**Date:** 27-Oct-2023

**Seismic Source:** Plate  
**Seismic Offset (ft):** 4.66  
**Source Depth (ft):** 0.00  
**Geophone Offset (ft):** 0.85

### SCPTu COMPRESSION WAVE VELOCITY TEST RESULTS - Vp

Tip Depth (ft)	Geophone Depth (ft)	Ray Path (ft)	Ray Path Difference (ft)	Travel Time Interval (ms)	Interval Velocity (ft/s)
4.99	4.13	6.23			
10.01	9.15	10.27	4.04	0.90	4491
15.03	14.17	14.92	4.65	0.70	6640



**Job No:** 23-53-26729  
**Client:** CME Associates, Inc.  
**Project:** Proposed Micron Plant, Clay, NY  
**Sounding ID:** SCPT23-B-332  
**Date:** 28-Oct-2023

**Seismic Source:** Plate  
**Seismic Offset (ft):** 4.56  
**Source Depth (ft):** 0.00  
**Geophone Offset (ft):** 0.85

### SCPTu COMPRESSION WAVE VELOCITY TEST RESULTS - Vp

Tip Depth (ft)	Geophone Depth (ft)	Ray Path (ft)	Ray Path Difference (ft)	Travel Time Interval (ms)	Interval Velocity (ft/s)
4.99	4.13	6.15			
10.01	9.15	10.23	4.07	1.60	2545
15.09	14.24	14.95	4.73	1.50	3150

## Seismic Cone Penetration Test **Poisson's** Ratio Results



**Job No:** 23-53-26729  
**Client:** CME Associates, Inc.  
**Project:** Proposed Micron Plant, Clay, NY  
**Sounding ID:** SCPT23-B-228A  
**Date:** 27-Oct-2023

### SCPT<sub>u</sub> POISSON'S RATIO RESULTS

Depth From (ft)	Depth To (ft)	Vs Interval Velocity (ft/s)	Vp Interval Velocity (ft/s)	Poisson's Ratio
4.13	9.15	483.70	2089.20	0.47
9.15	14.17	618.40	6654.30	0.50



**Job No:** 23-53-26729  
**Client:** CME Associates, Inc.  
**Project:** Proposed Micron Plant, Clay, NY  
**Sounding ID:** SCPT23-B-293  
**Date:** 27-Oct-2023

### SCPT<sub>u</sub> POISSON'S RATIO RESULTS

Depth From (ft)	Depth To (ft)	Vs Interval Velocity (ft/s)	Vp Interval Velocity (ft/s)	Poisson's Ratio
4.13	9.15	542.80	4491.20	0.49
9.15	14.17	790.20	6640.20	0.49



**Job No:** 23-53-26729  
**Client:** CME Associates, Inc.  
**Project:** Proposed Micron Plant, Clay, NY  
**Sounding ID:** SCPT23-B-332  
**Date:** 28-Oct-2023

### SCPT<sub>u</sub> POISSON'S RATIO RESULTS

Depth From (ft)	Depth To (ft)	Vs Interval Velocity (ft/s)	Vp Interval Velocity (ft/s)	Poisson's Ratio
4.13	9.15	692.20	2544.70	0.46
9.15	14.24	1004.50	3149.80	0.44

## **Soil Behavior Type (SBT) Scatter Plots**

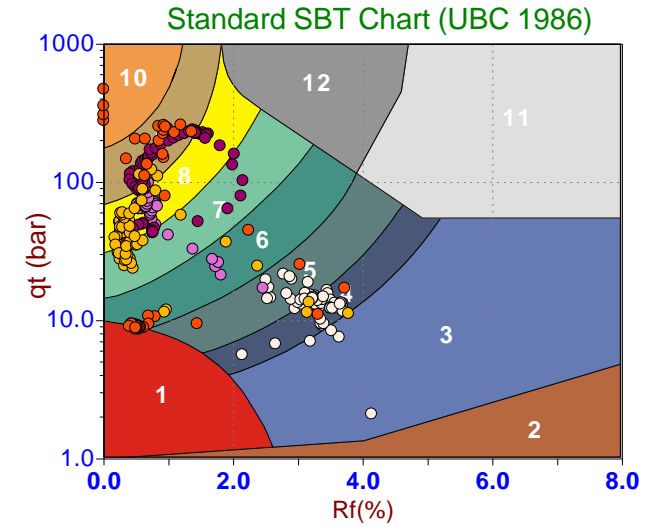
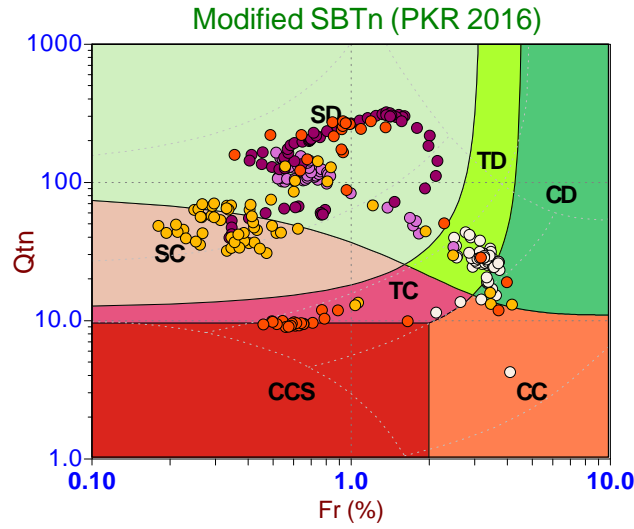
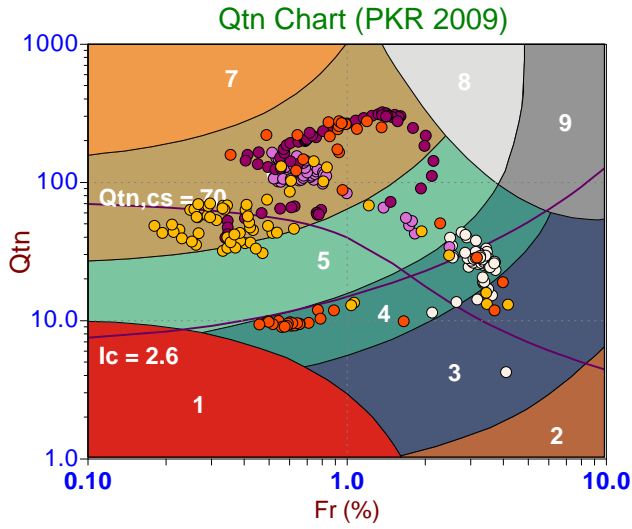




**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 12:03  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-004  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

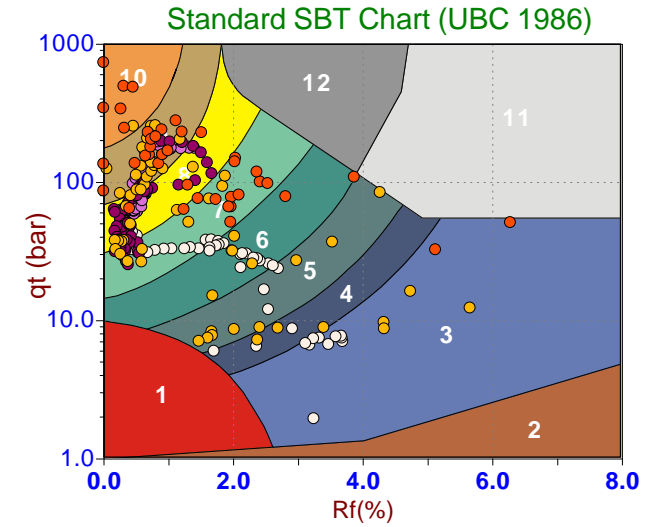
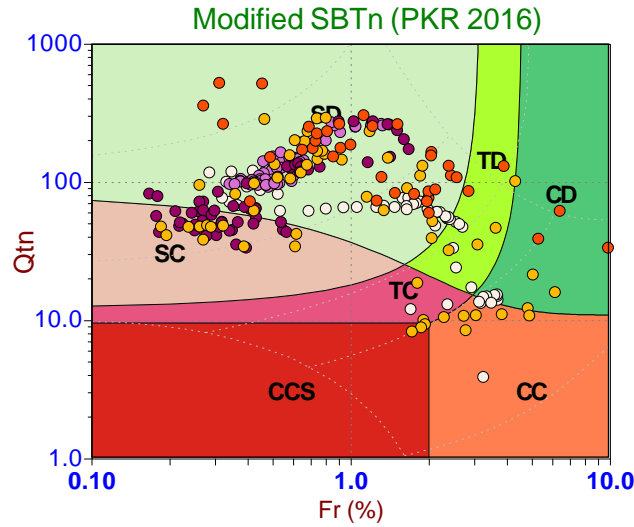
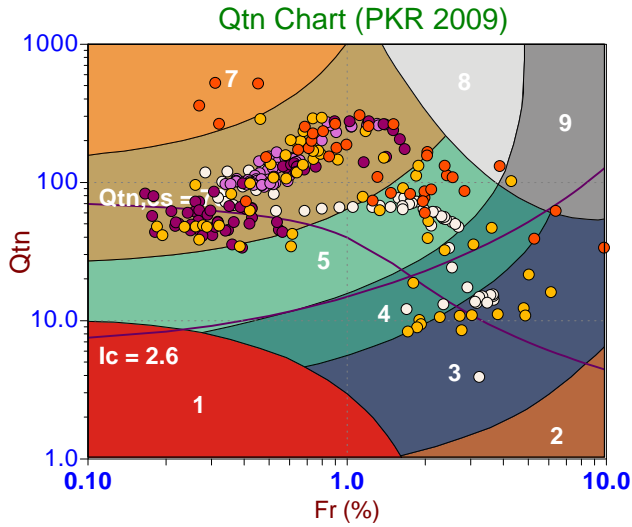
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 12:43  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-006  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

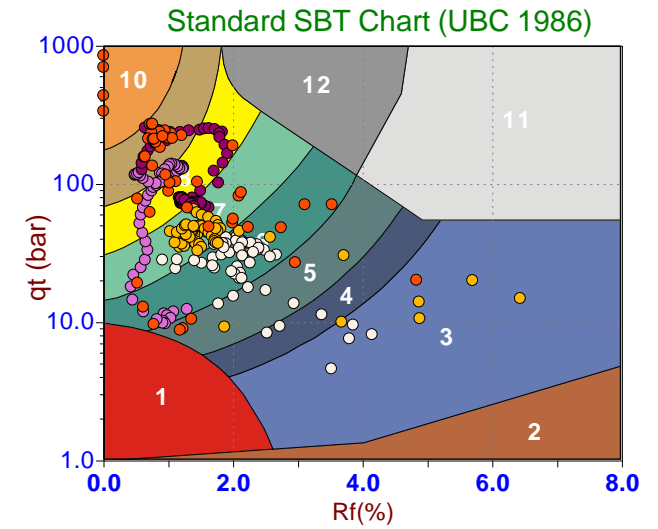
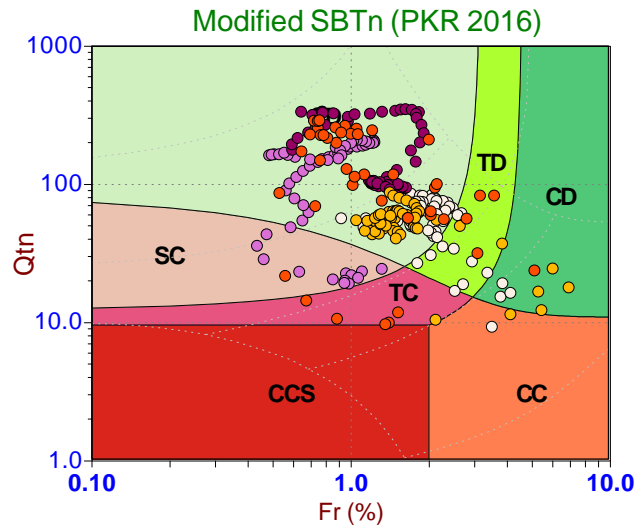
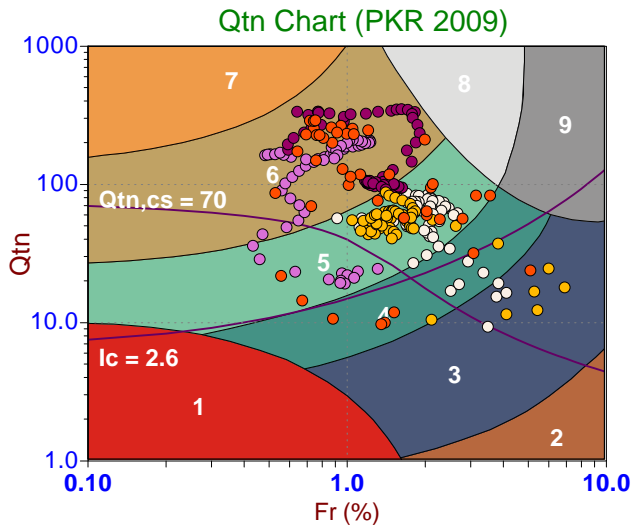
Job No: 23-53-26729

Date: 2023-10-25 10:45

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-008

Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

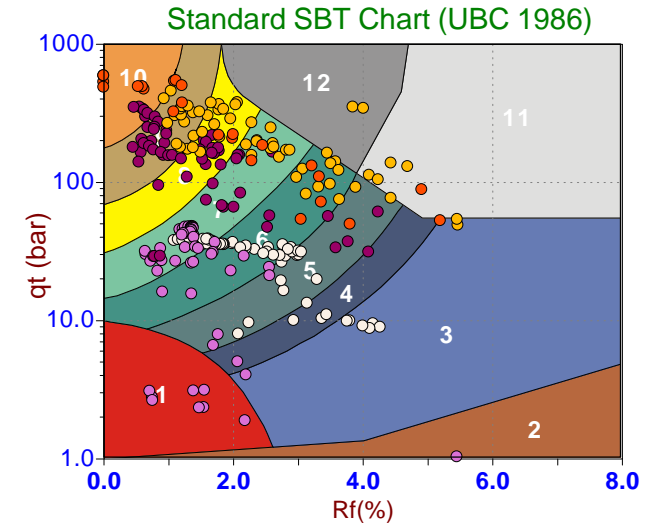
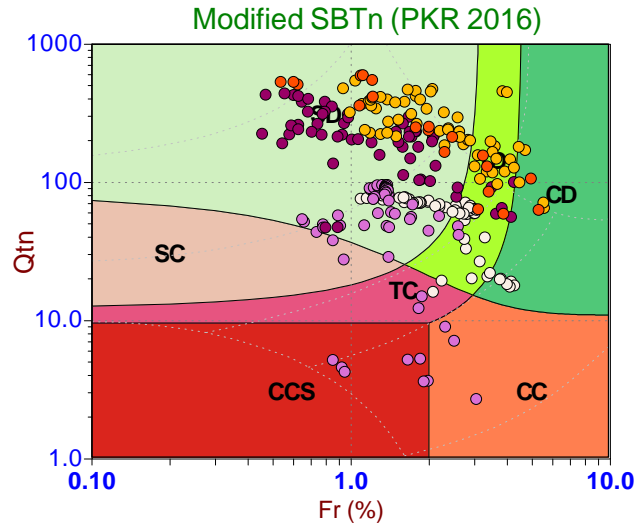
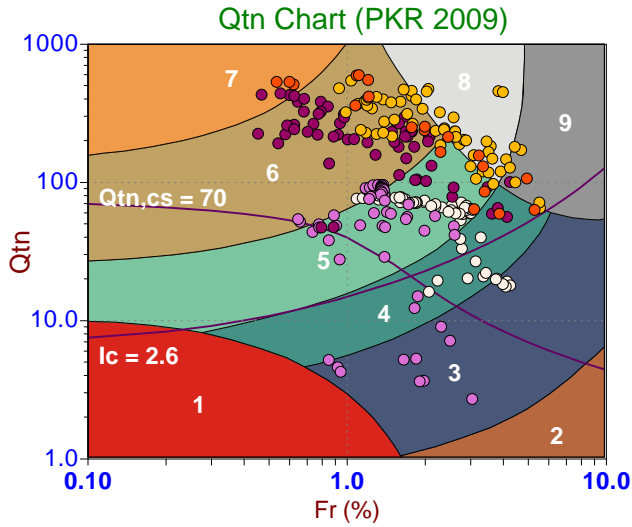
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 15:20  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-014  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

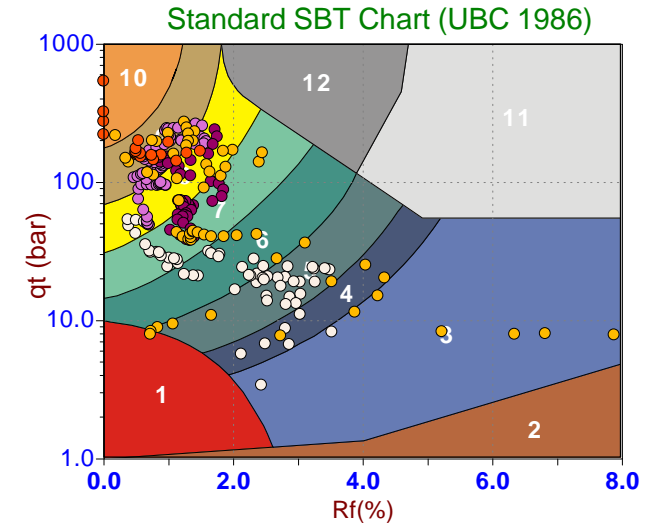
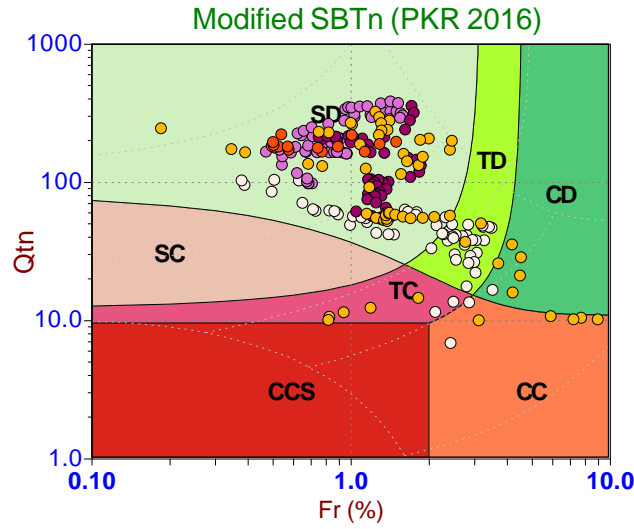
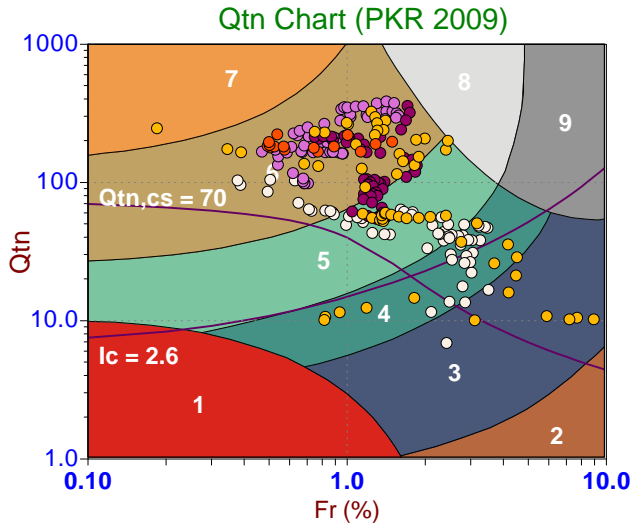
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 11:24  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-016  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

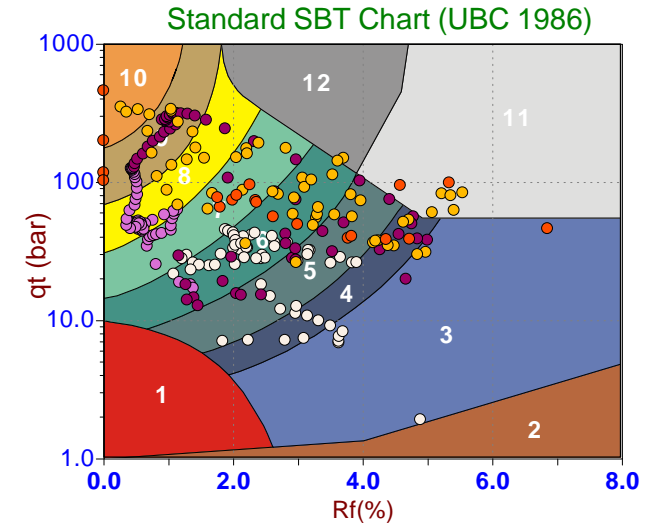
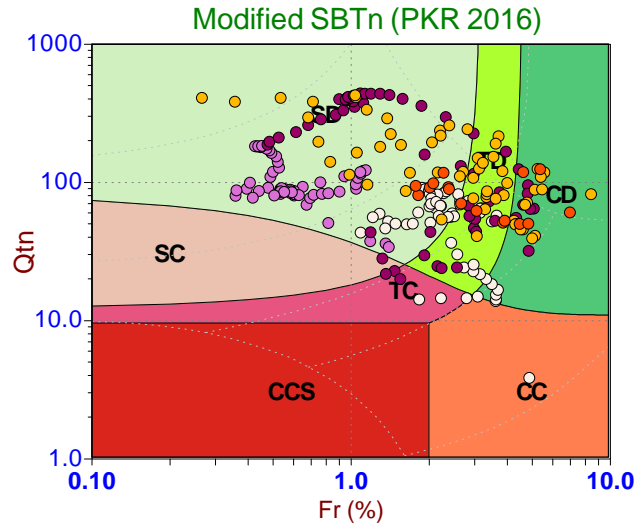
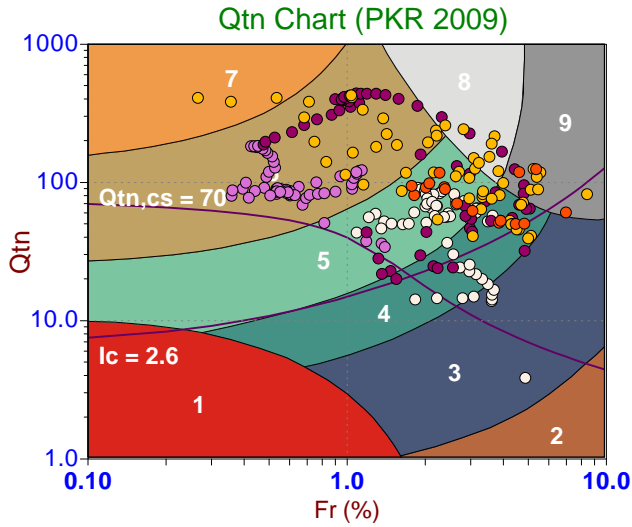
Job No: 23-53-26729

Date: 2023-10-25 09:58

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-021

Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

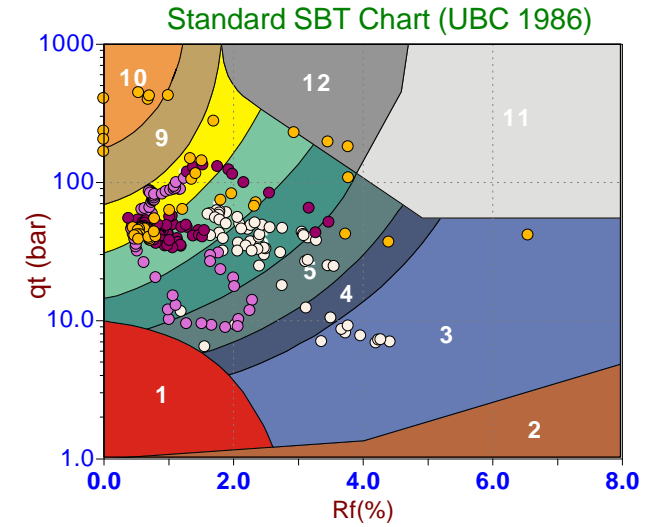
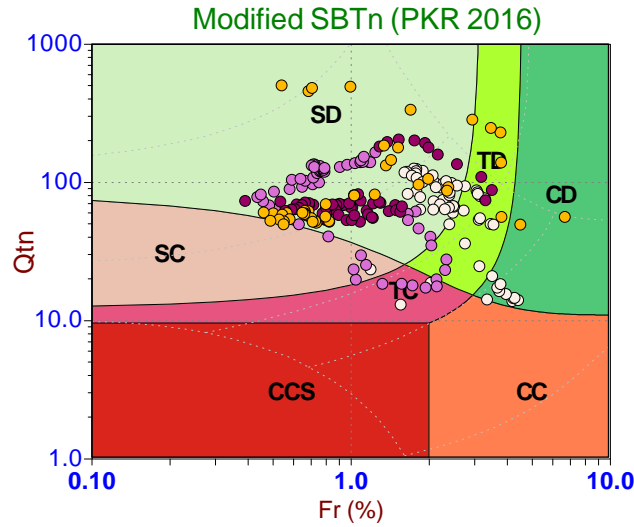
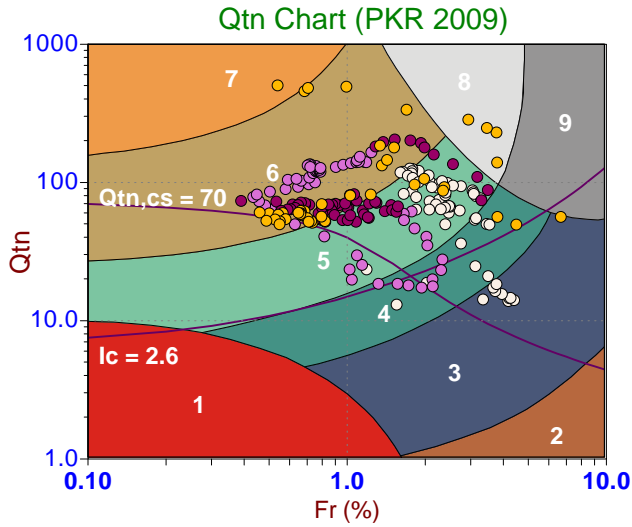
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 14:36  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-022  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

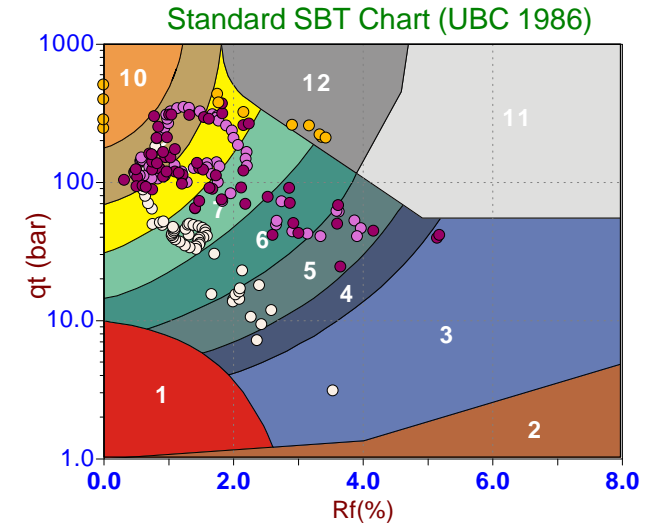
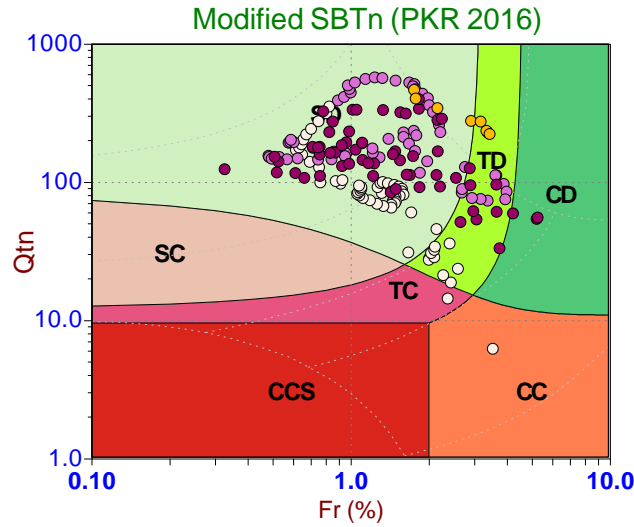
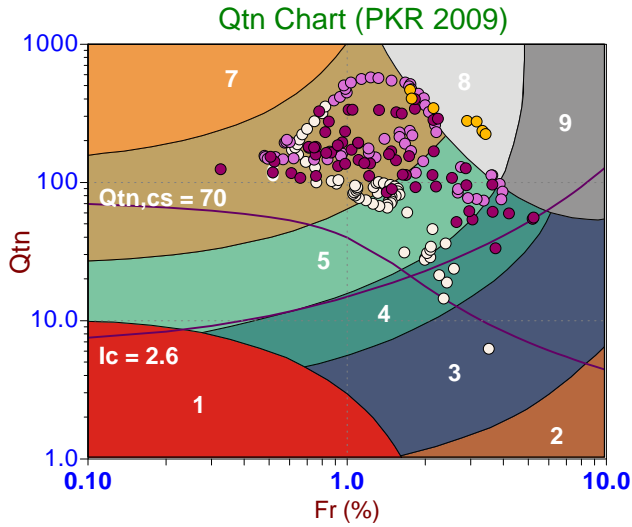
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 13:10  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-060  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand

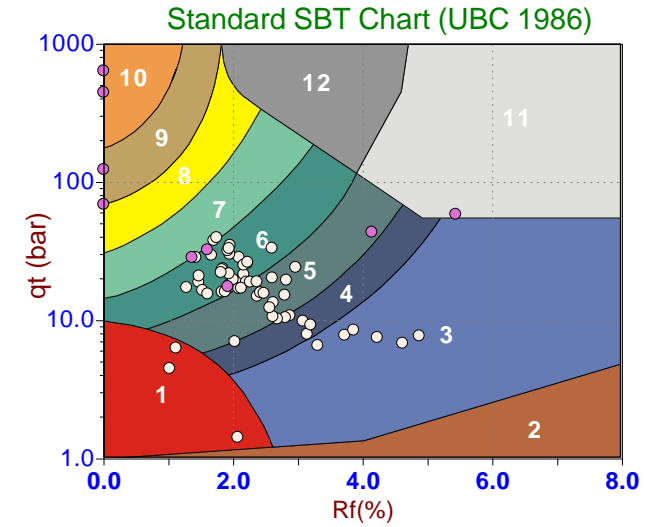
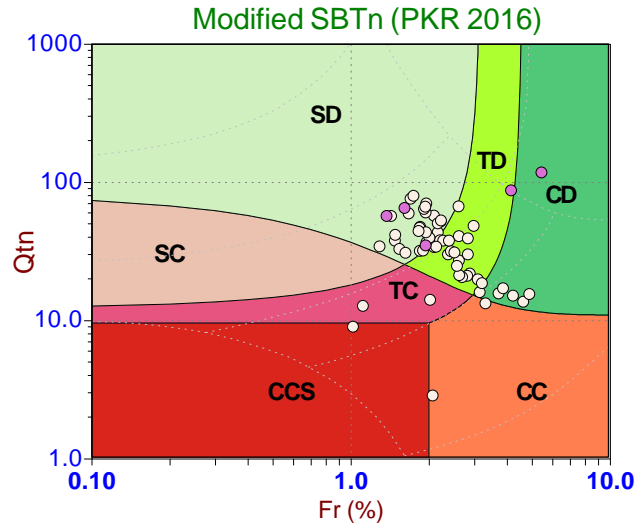
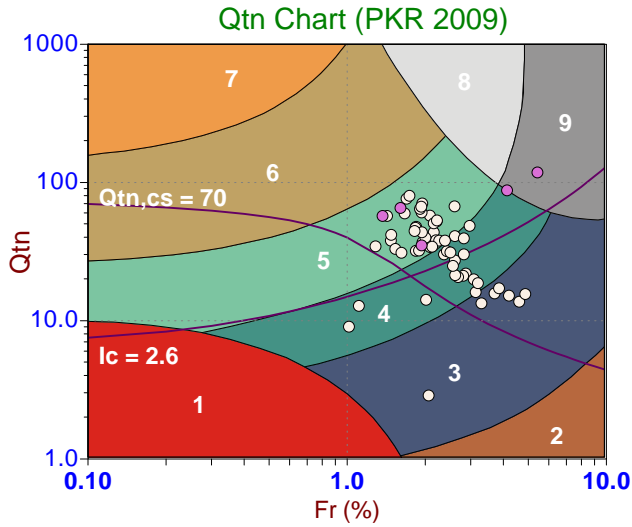




**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 09:05  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-064  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

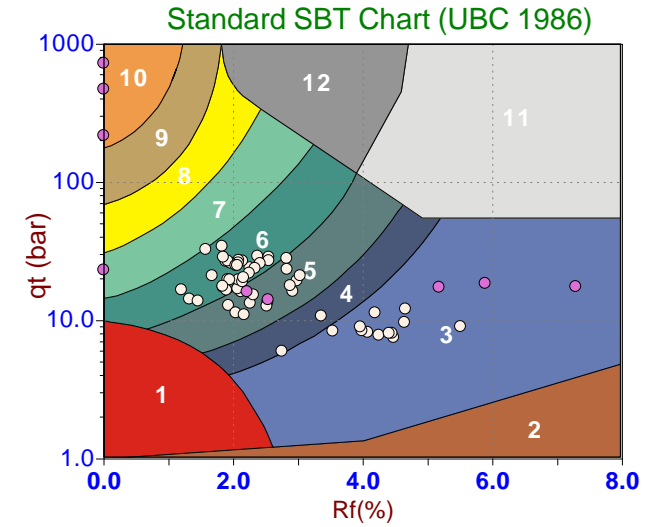
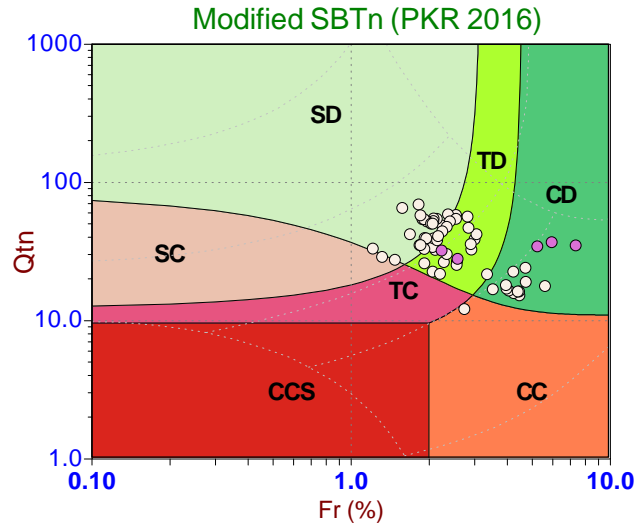
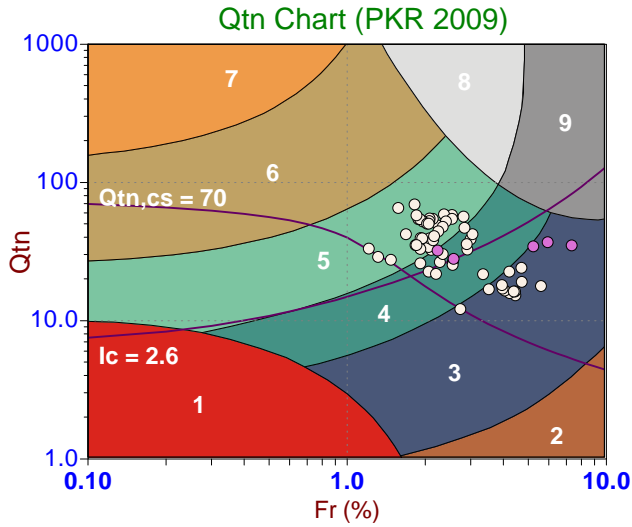
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 09:29  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-064A  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

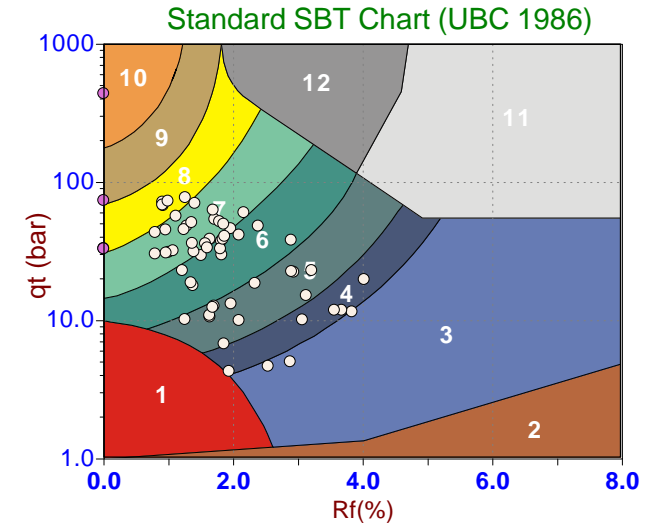
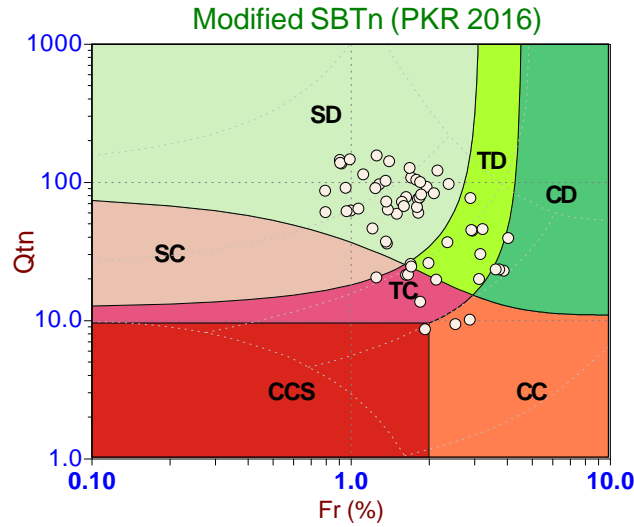
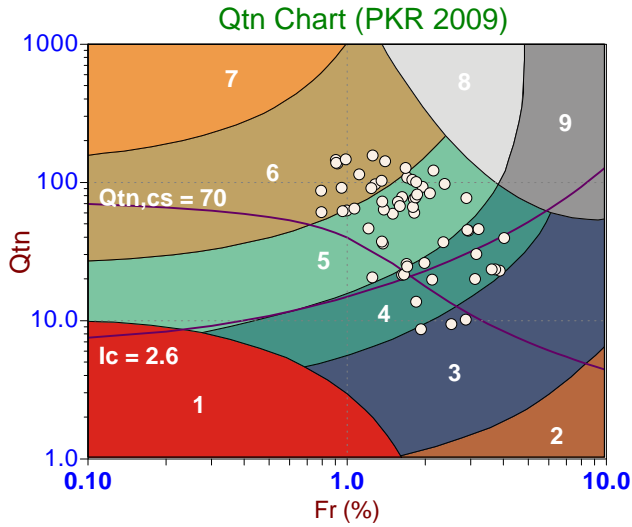
Job No: 23-53-26729

Date: 2023-10-23 07:02

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-066

Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

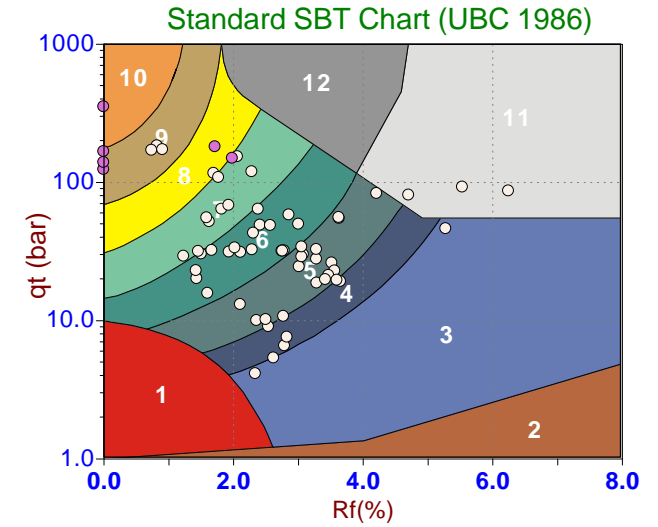
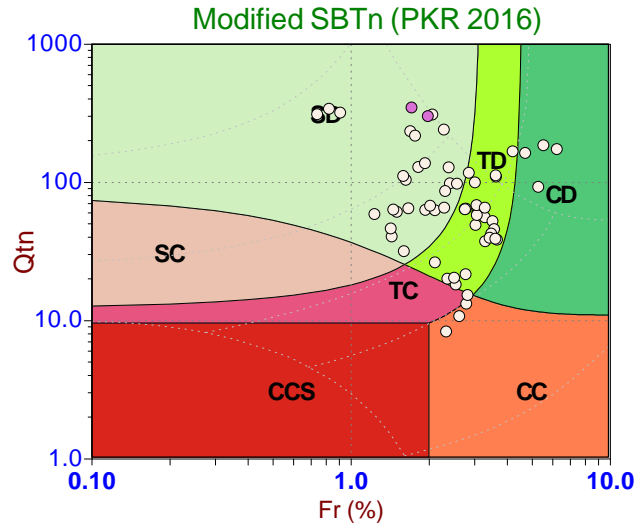
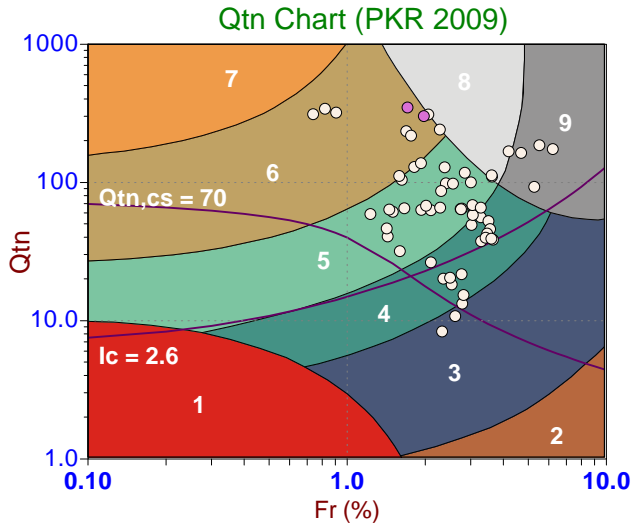
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 08:36  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-066A  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

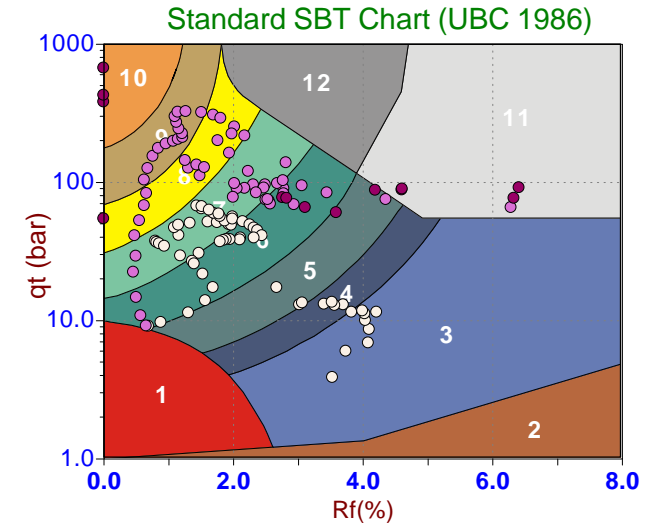
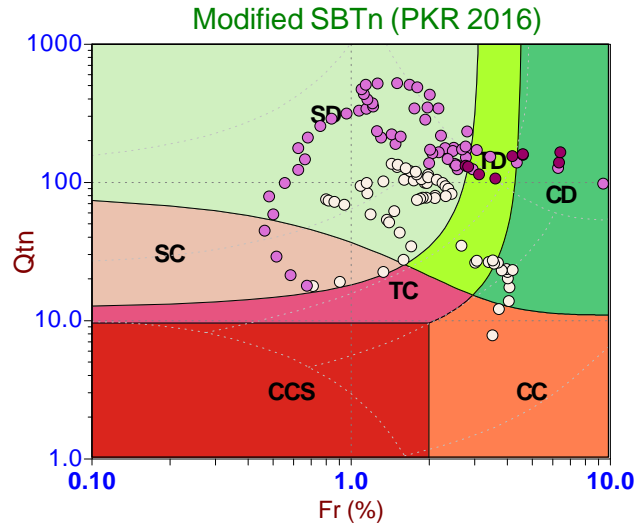
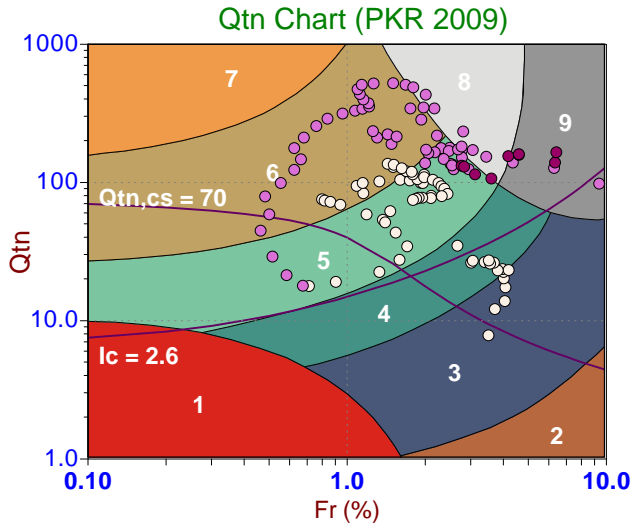
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 13:47  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-070  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

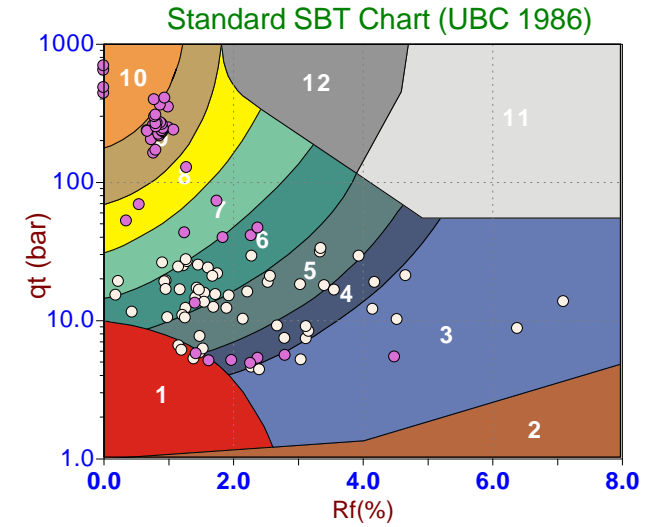
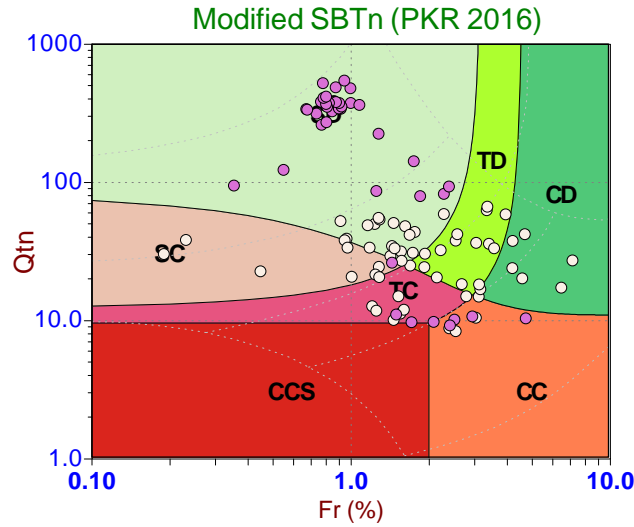
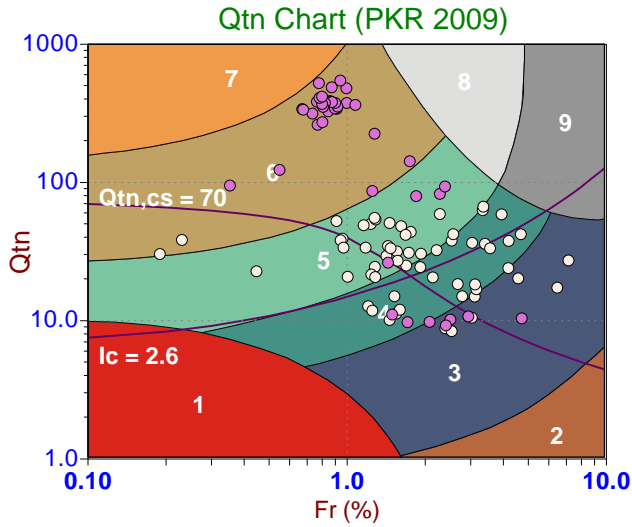
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 10:47  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-073  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

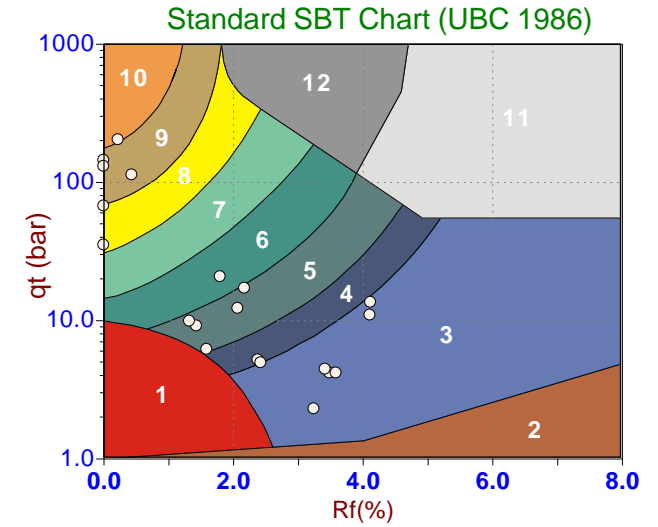
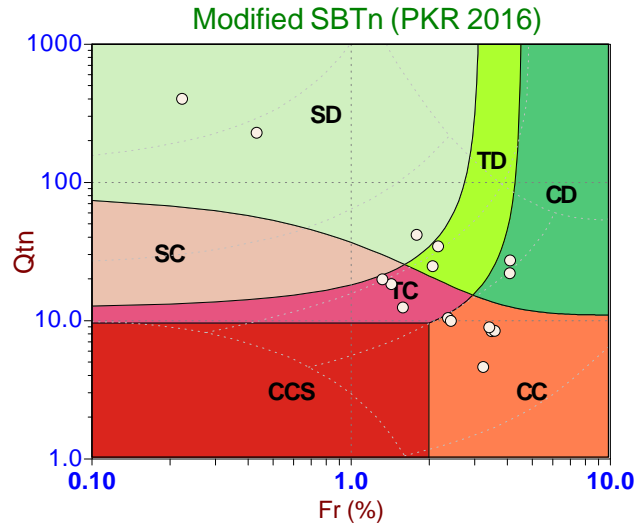
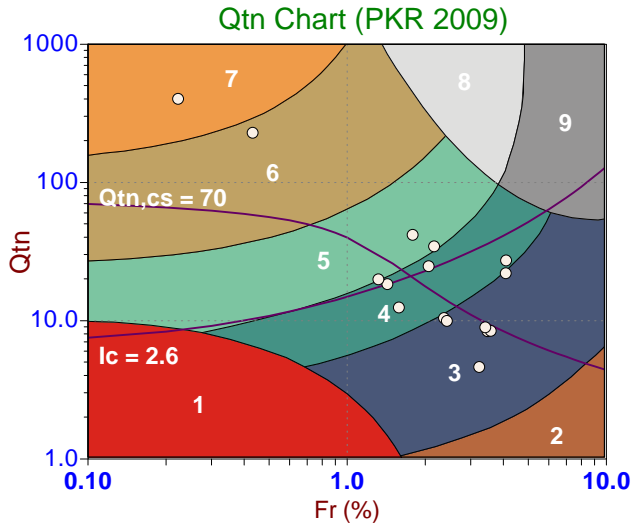
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 09:58  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-074  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

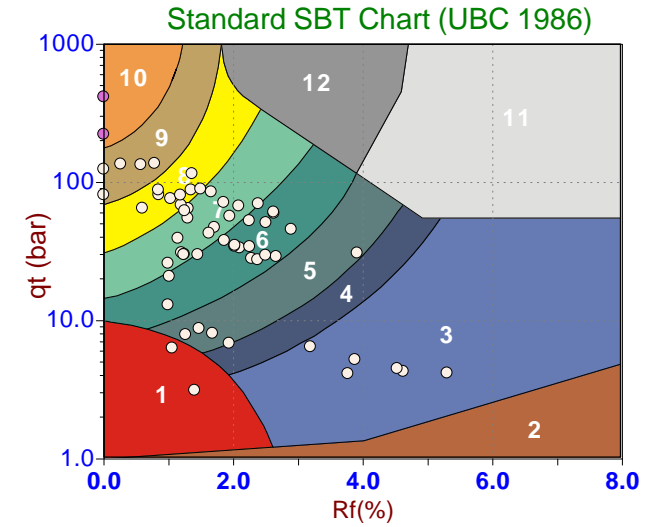
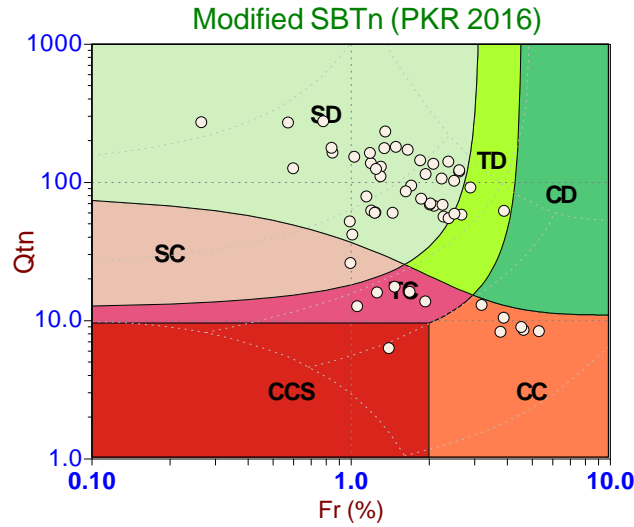
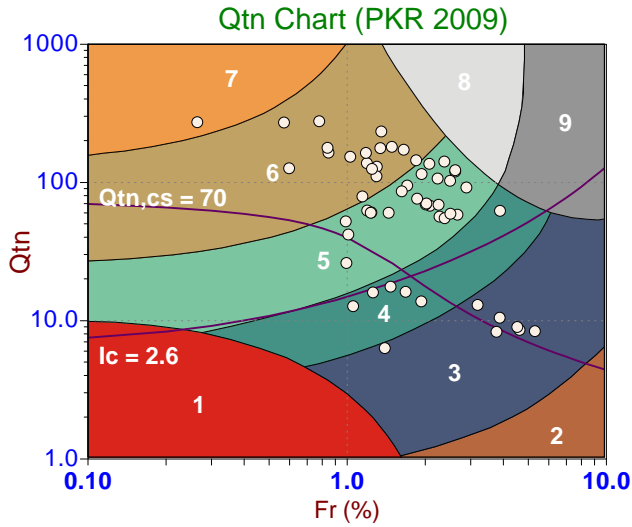
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 10:17  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-074A  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand

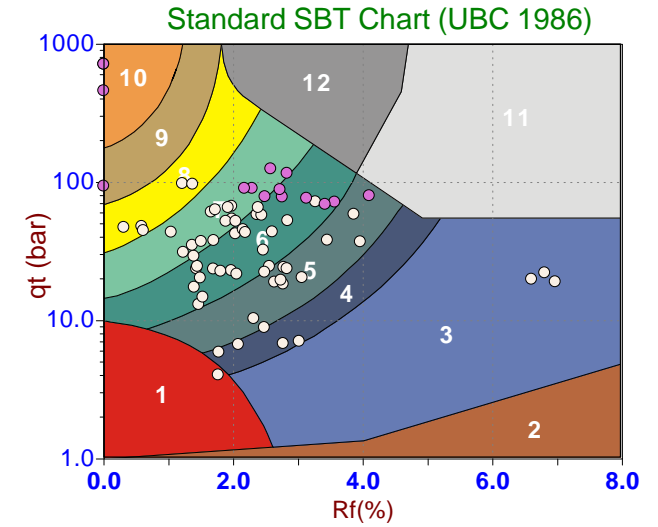
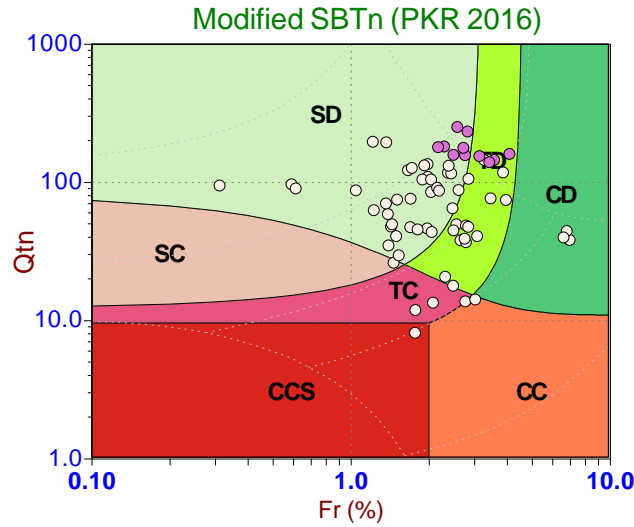
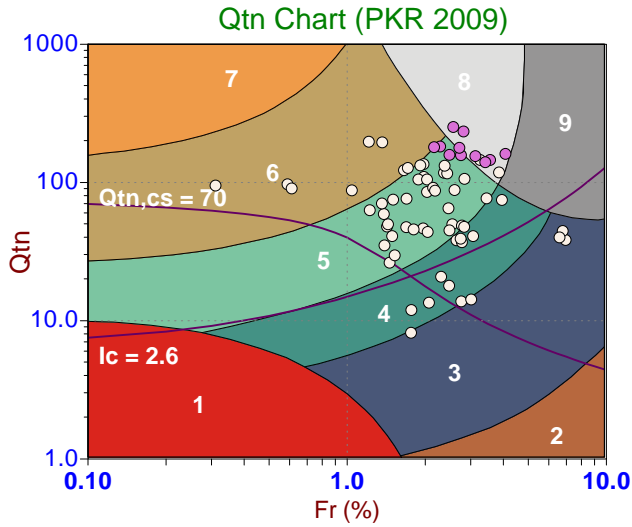




**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 11:10  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-075  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

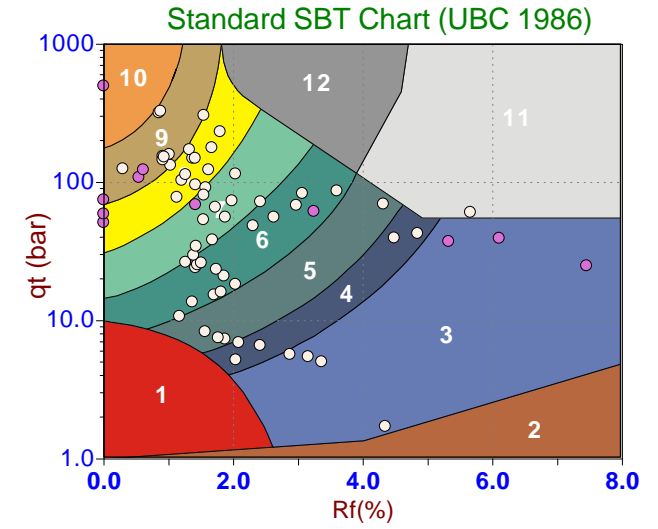
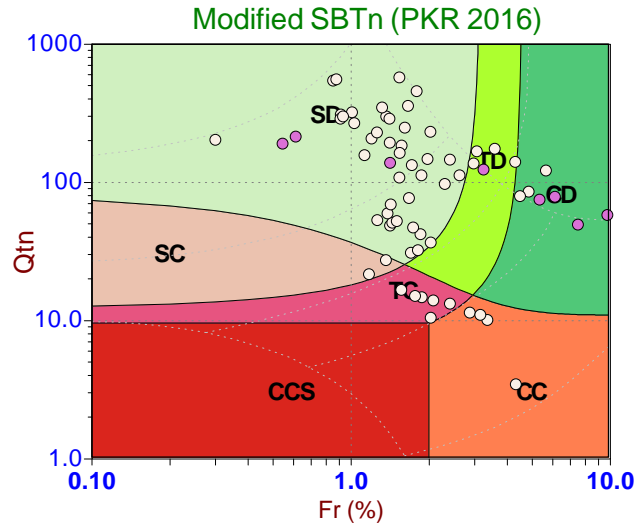
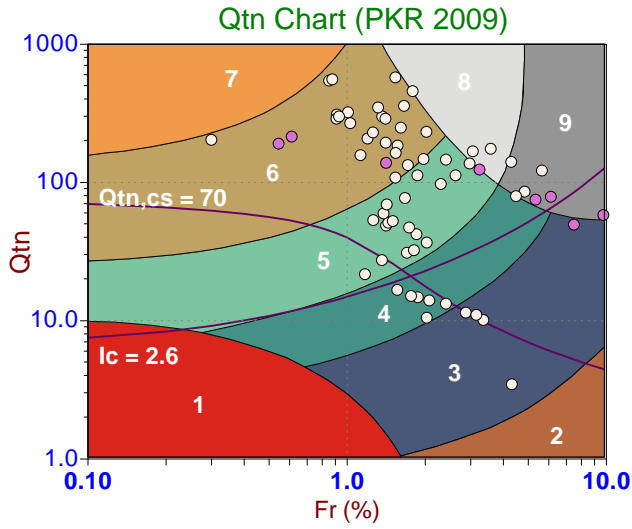
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 11:37  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-076  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

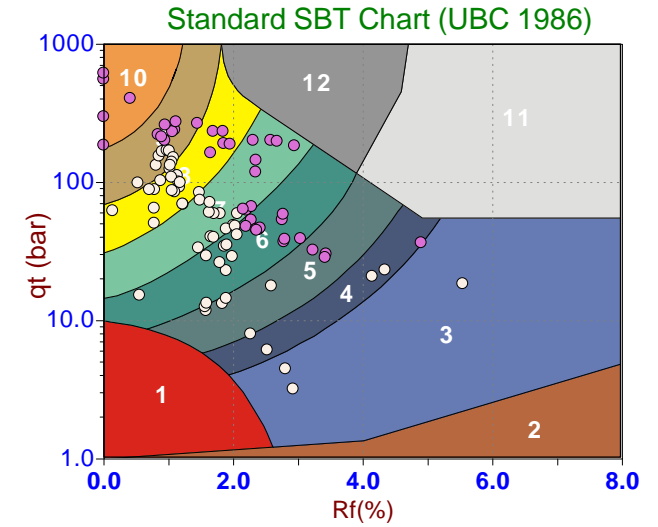
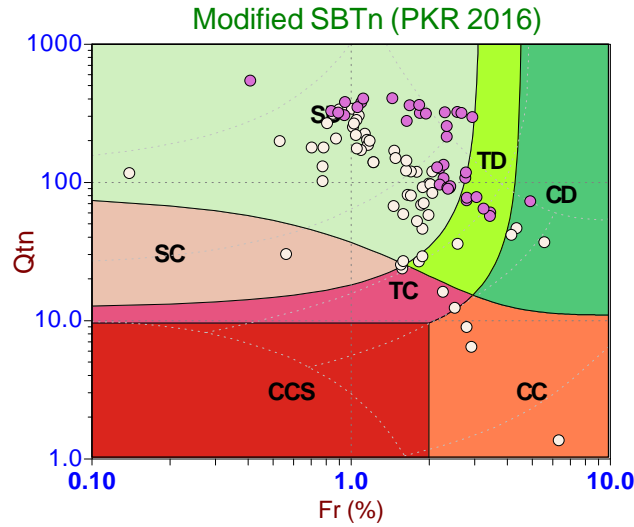
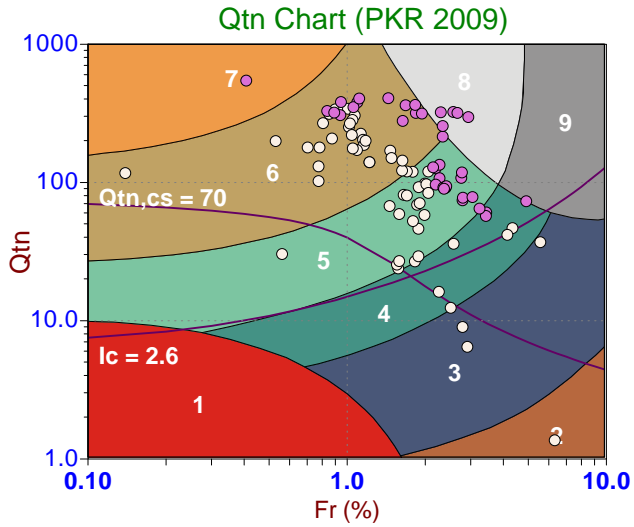
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 12:06  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-077  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

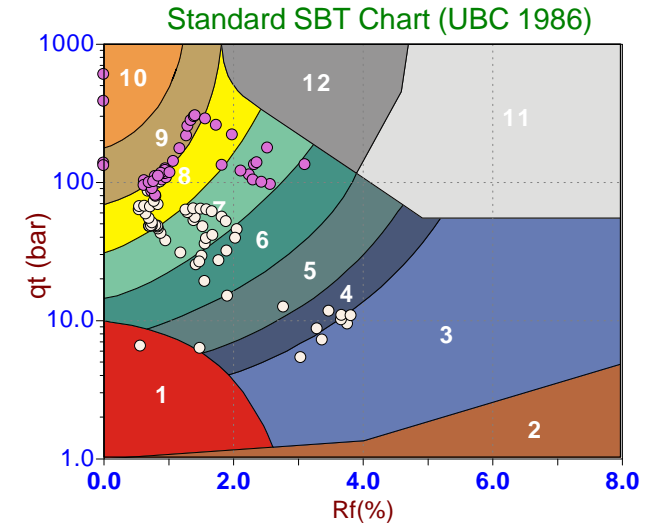
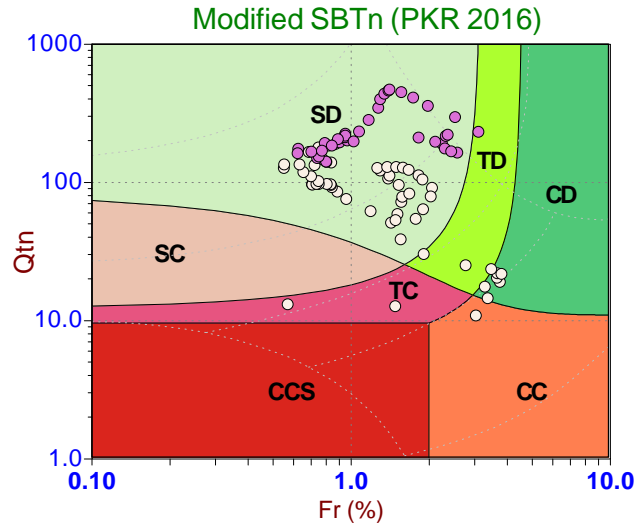
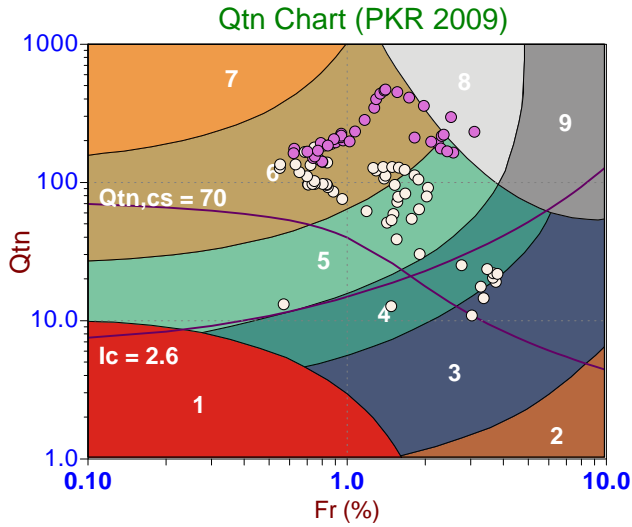
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 07:29  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-078  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

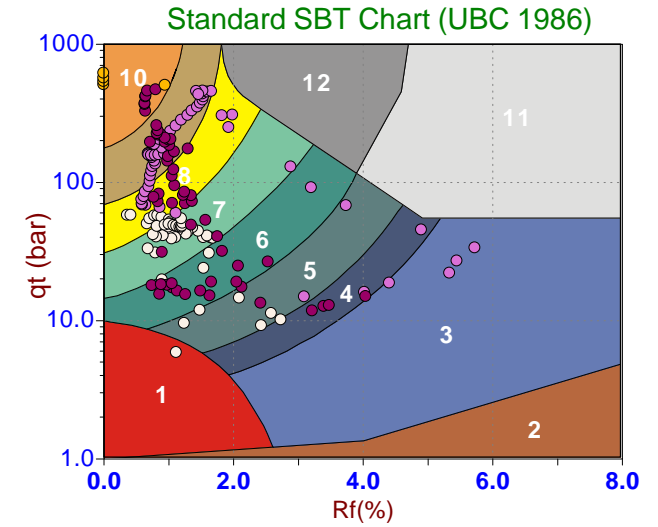
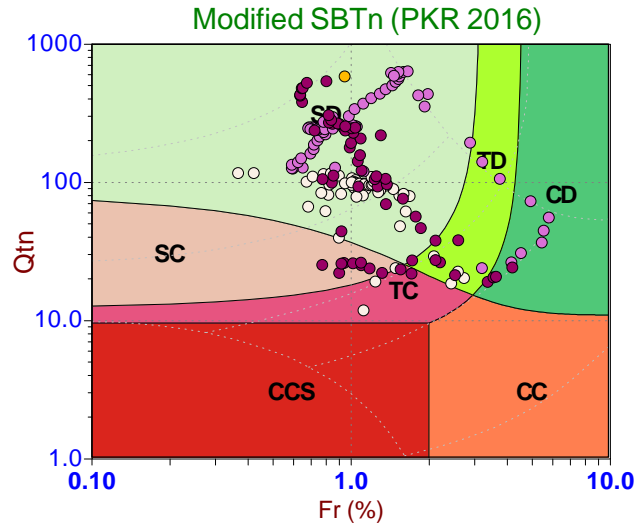
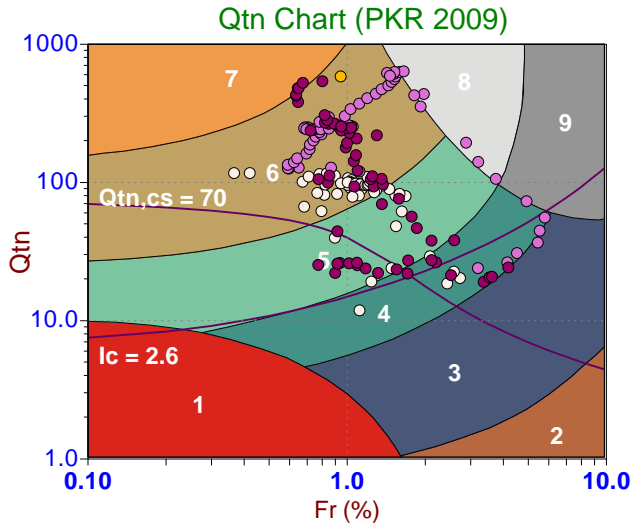
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 14:26  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-080  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

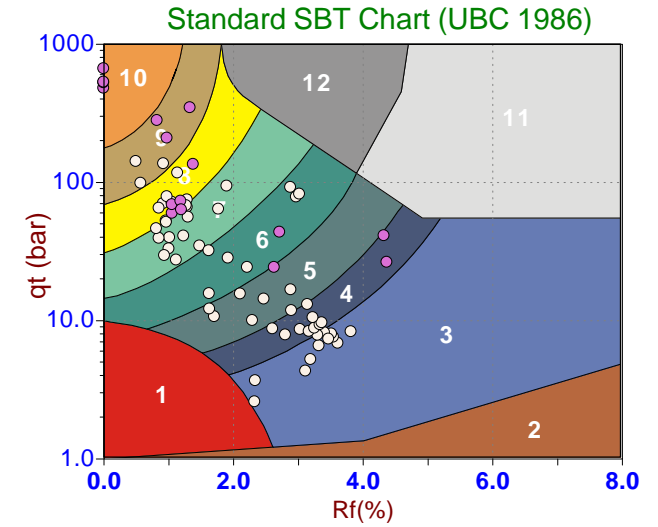
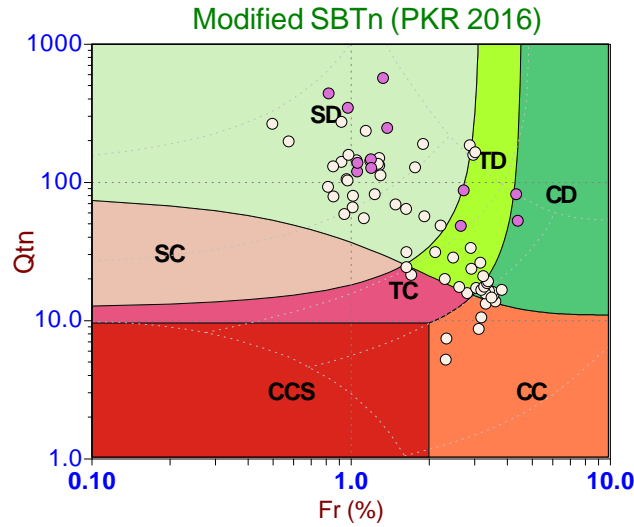
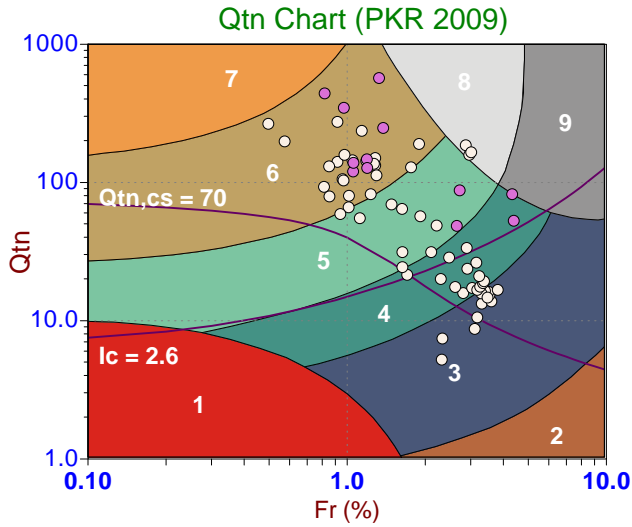
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 13:38  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-084  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

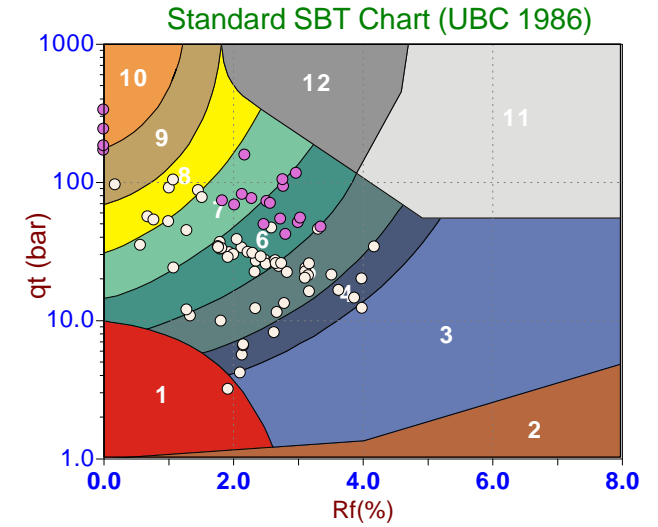
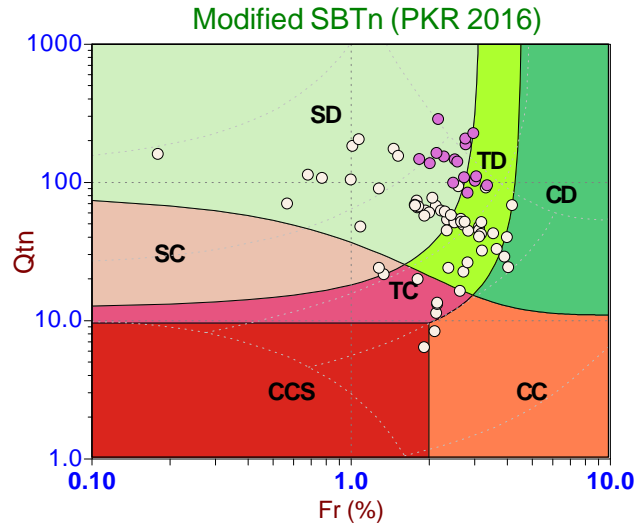
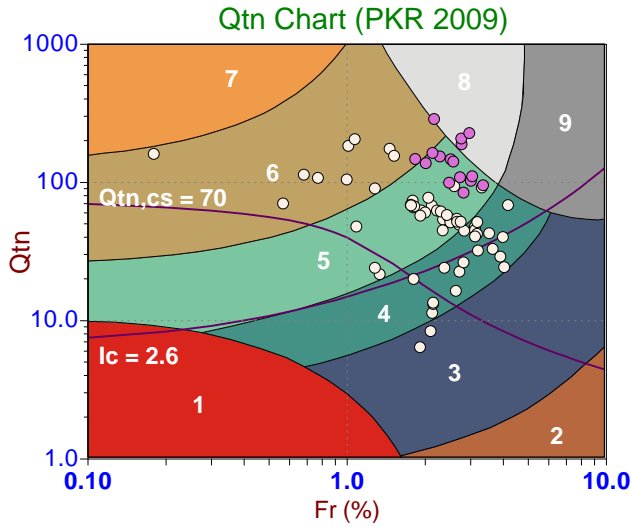
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 12:54  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-086  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

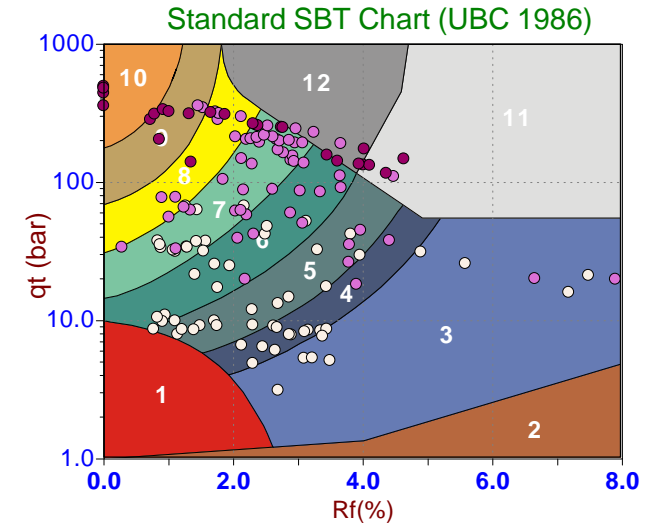
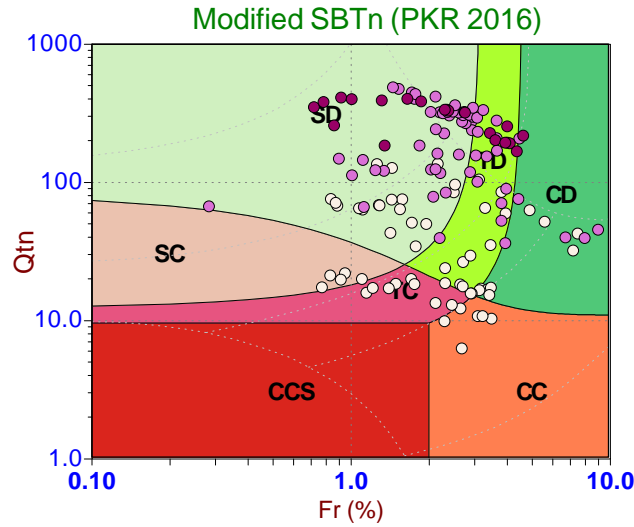
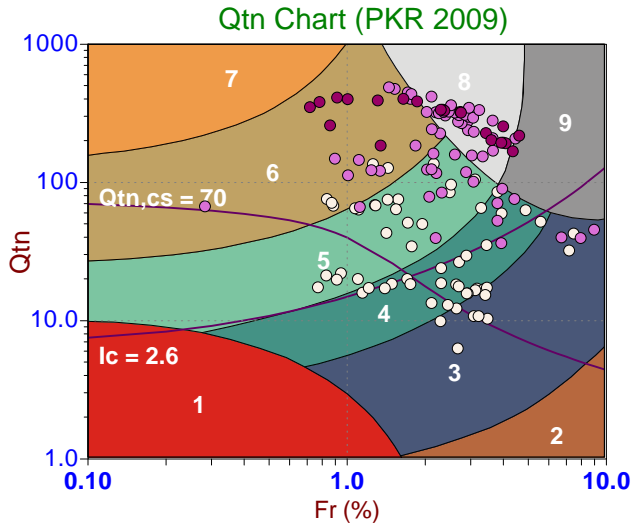
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



CME Associates

Job No: 23-53-26729  
Date: 2023-10-23 14:25  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-092  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand





**CME Associates**

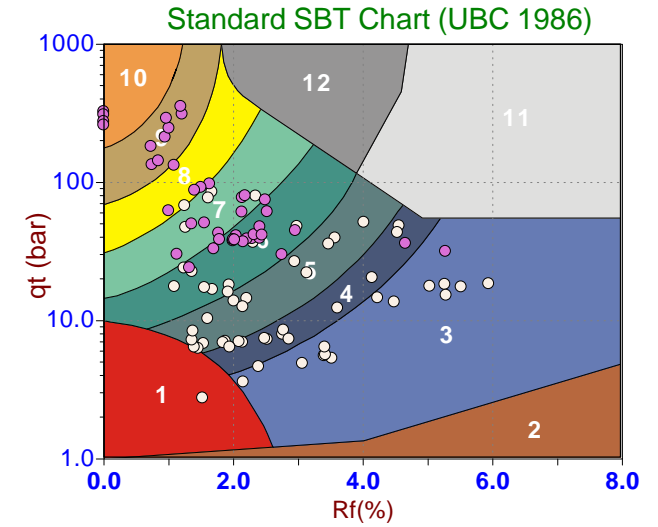
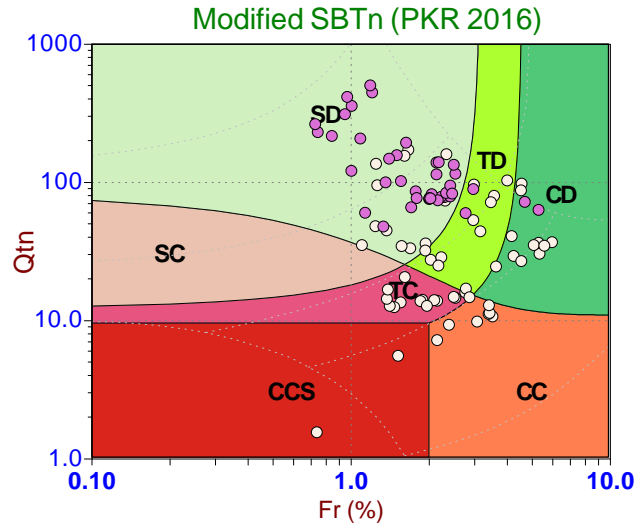
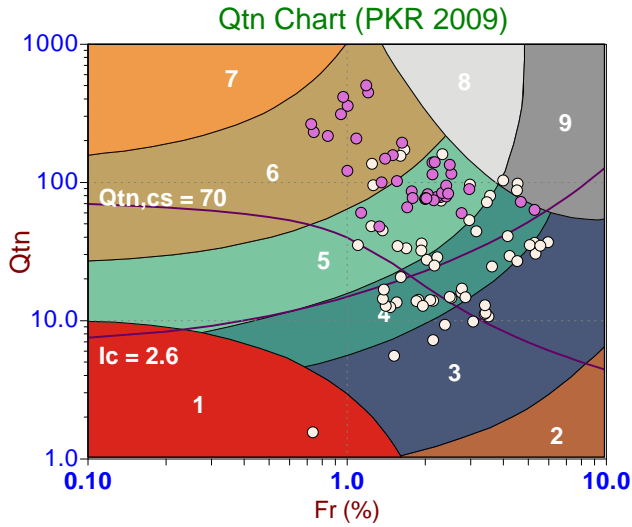
Job No: 23-53-26729

Date: 2023-10-23 14:11

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-093

Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

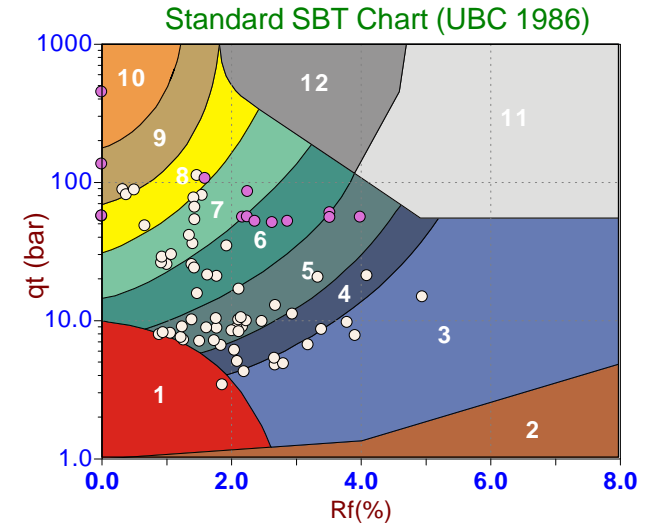
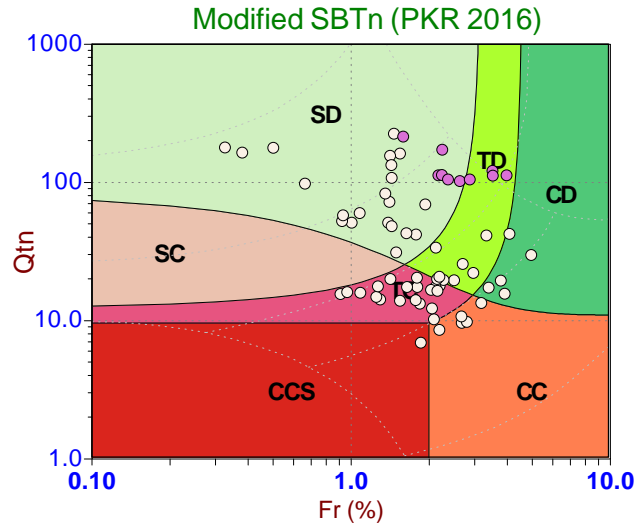
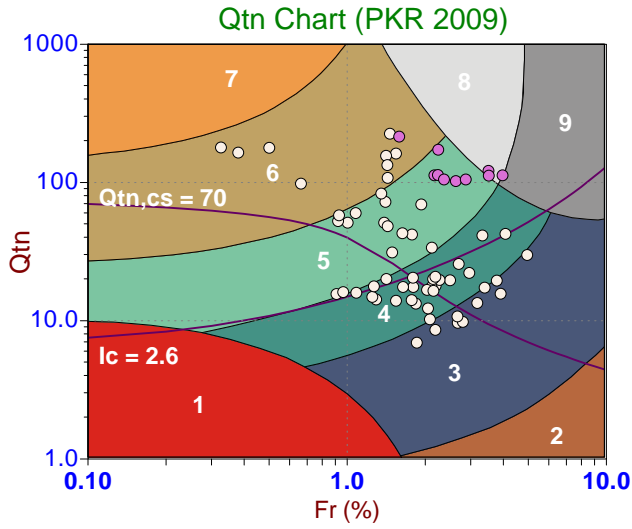
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 07:28  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-095  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

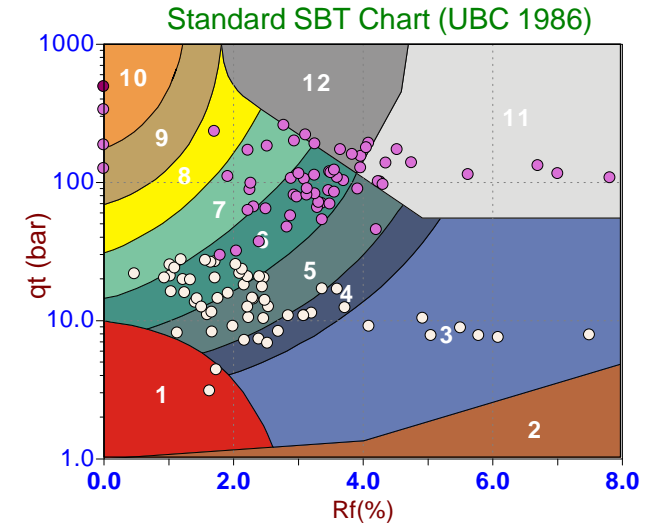
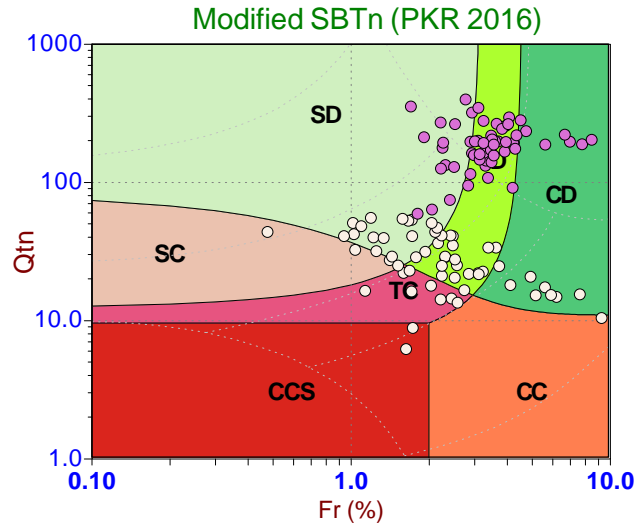
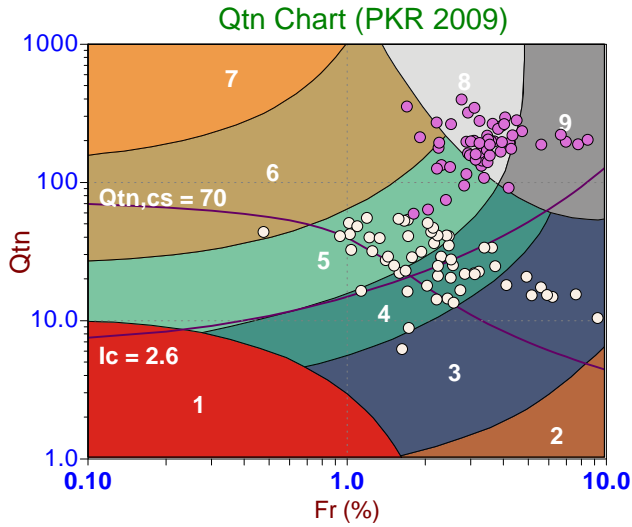
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-23 12:45  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-097  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

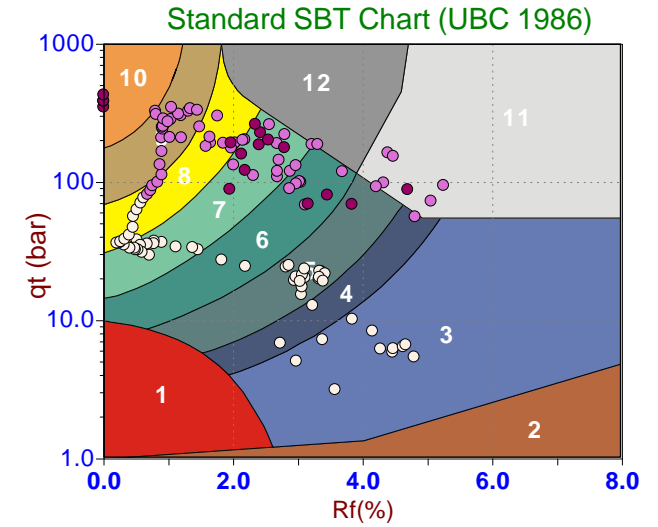
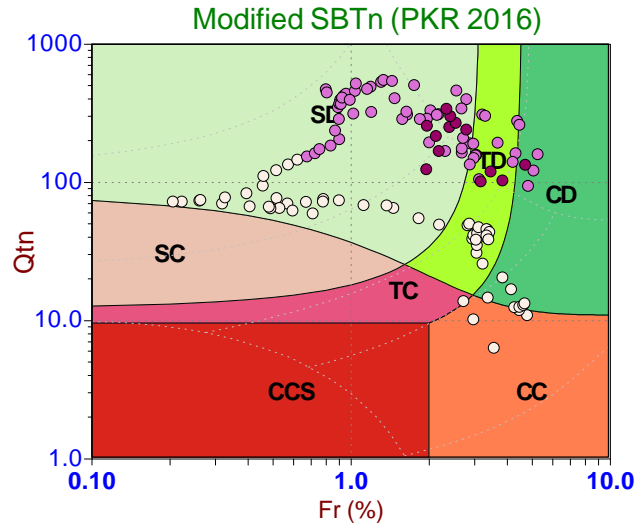
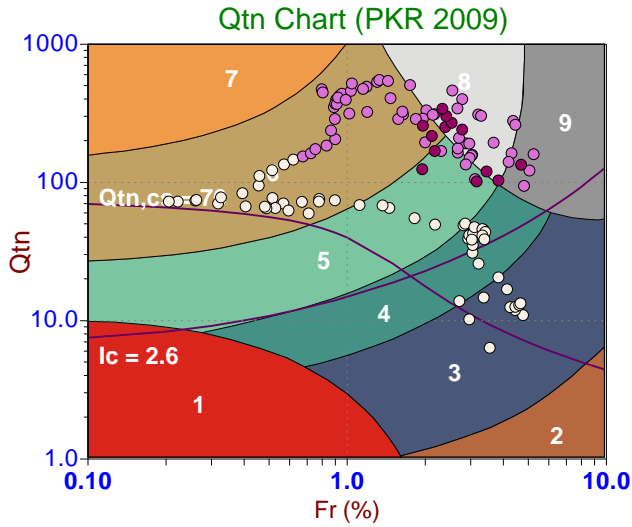
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 08:00  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-098  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

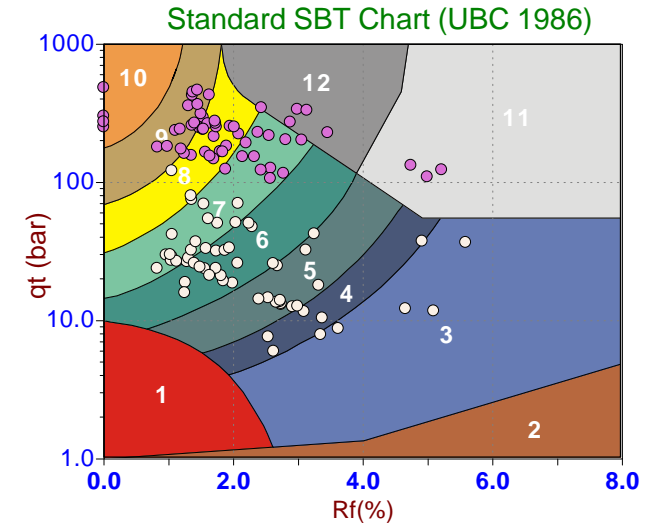
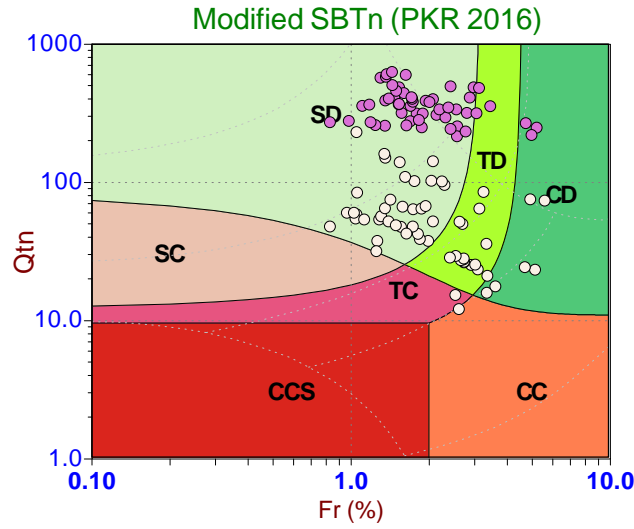
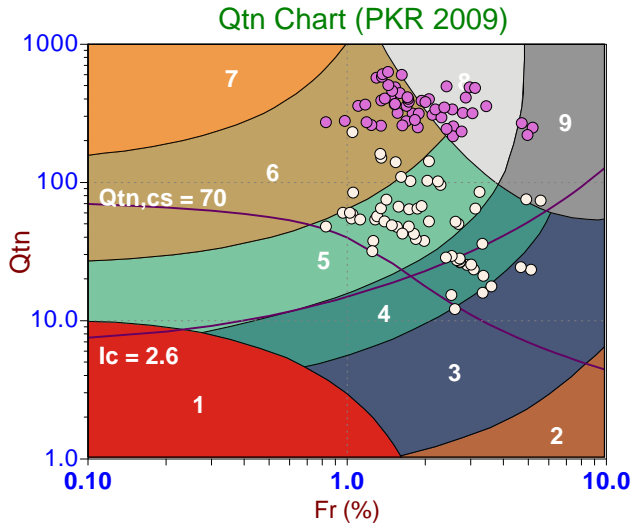
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 11:28  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-102  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

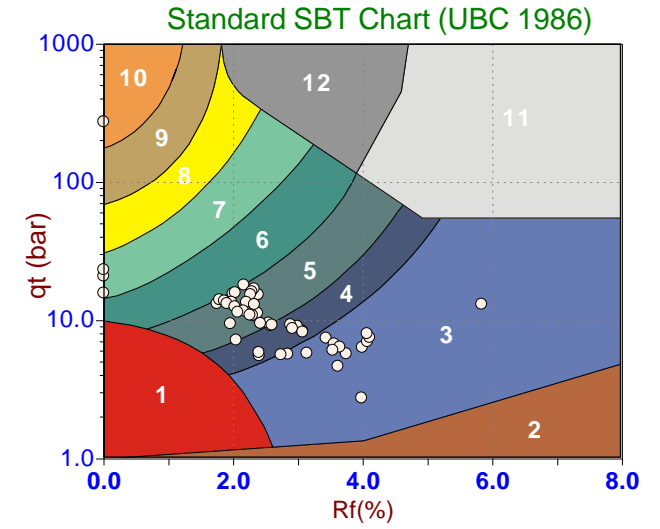
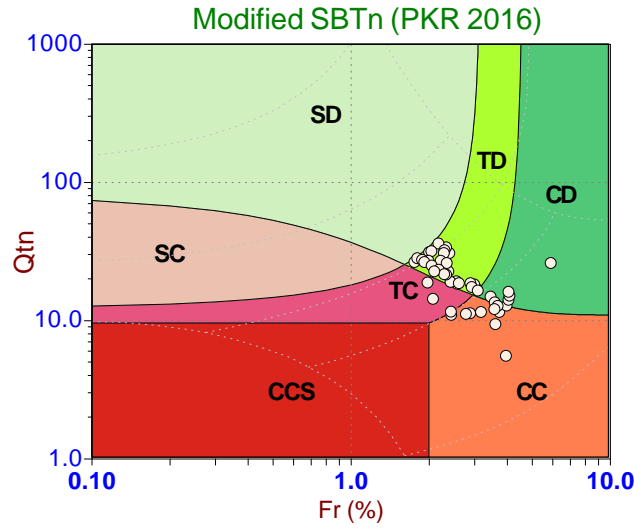
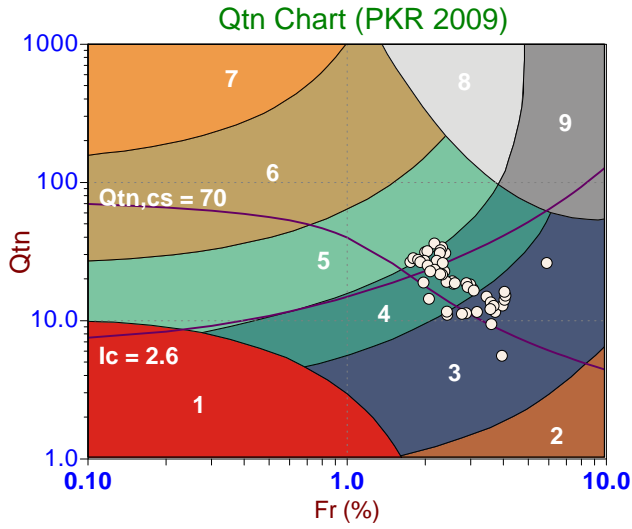
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 12:09  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-104  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

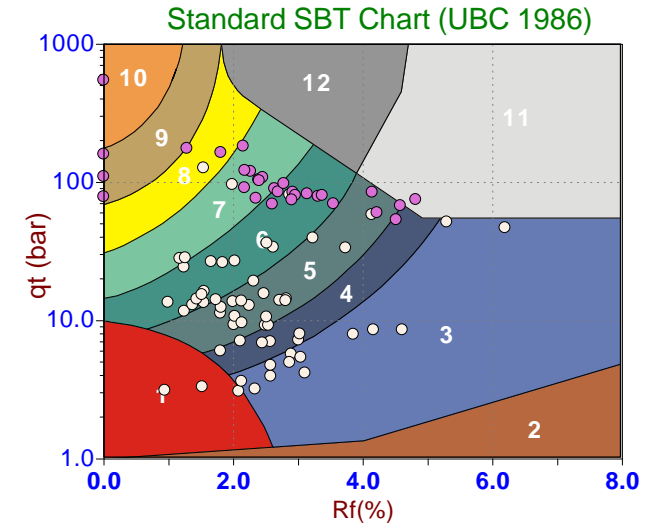
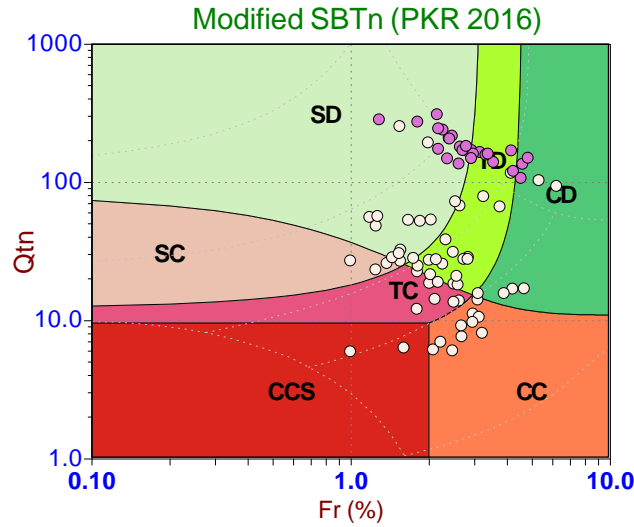
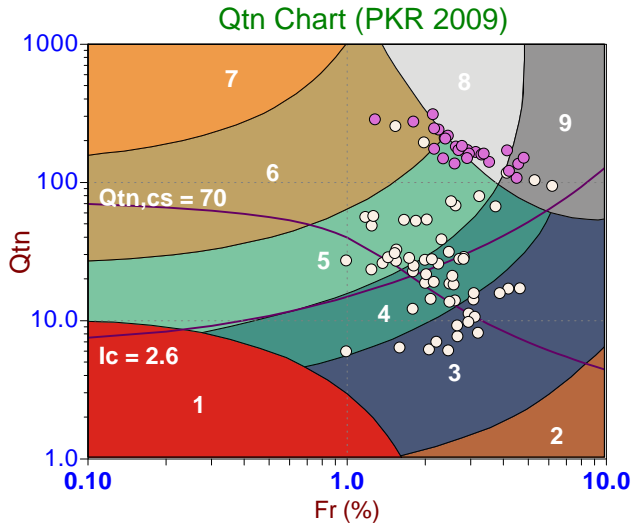
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 08:37  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-106  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

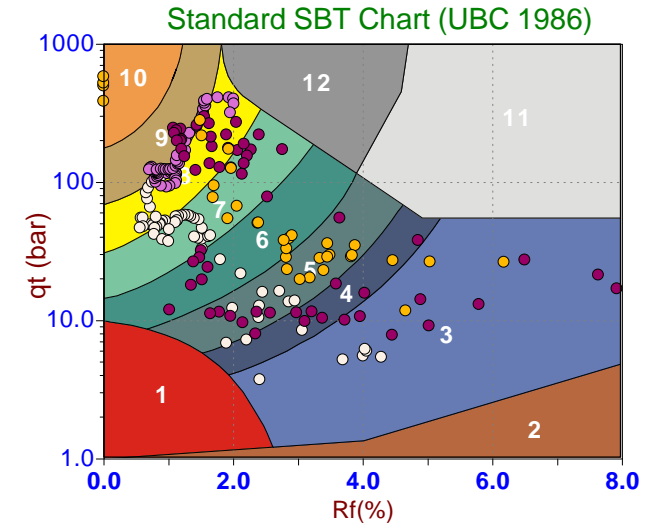
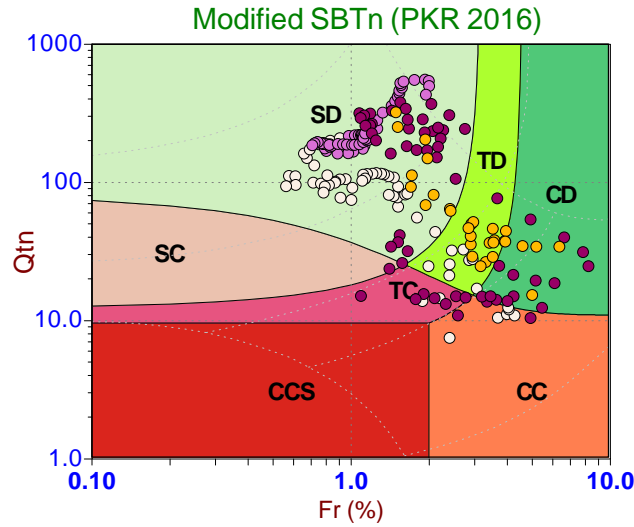
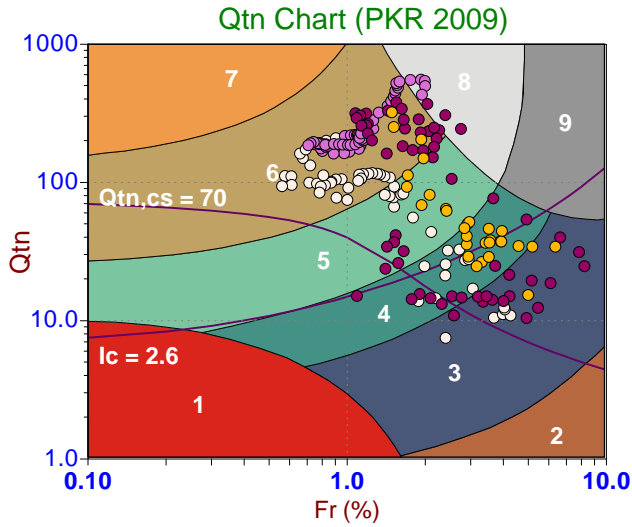
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-25 08:35  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-107  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand

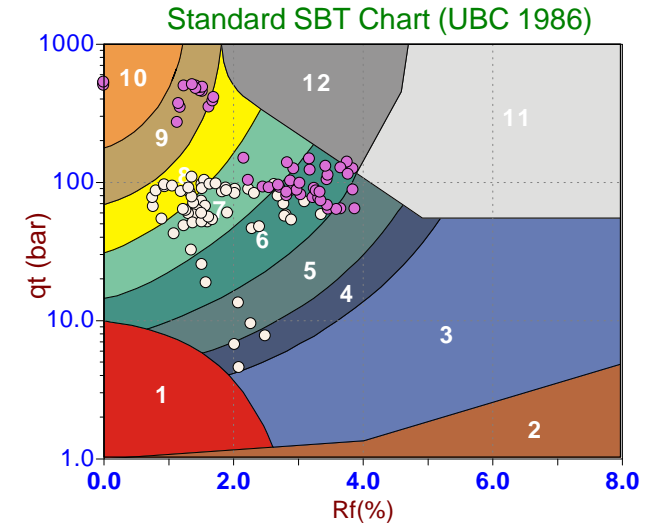
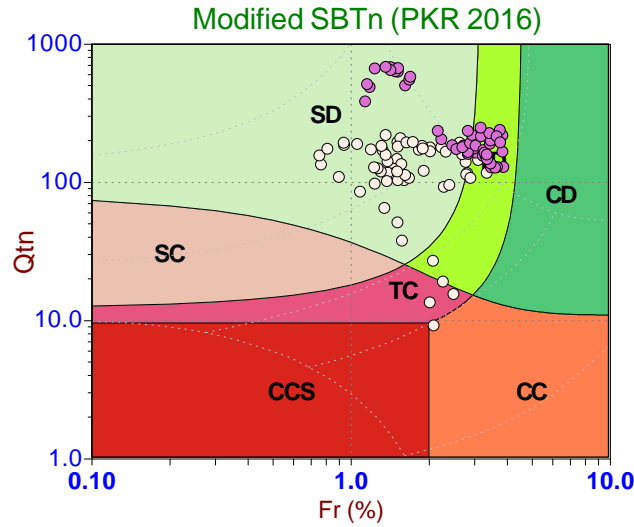
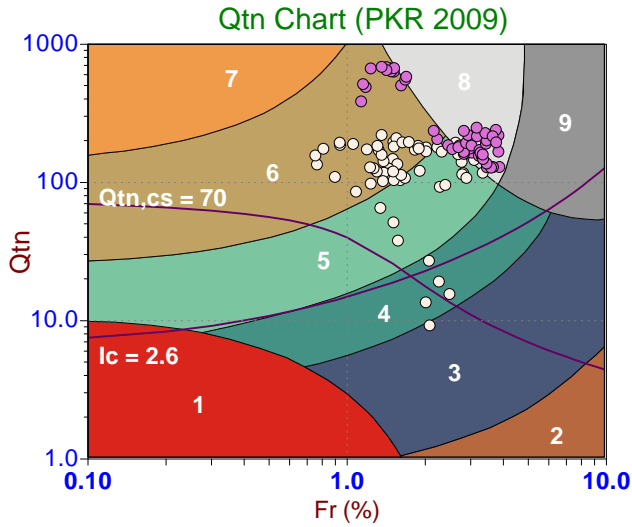




**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 10:50  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-112  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

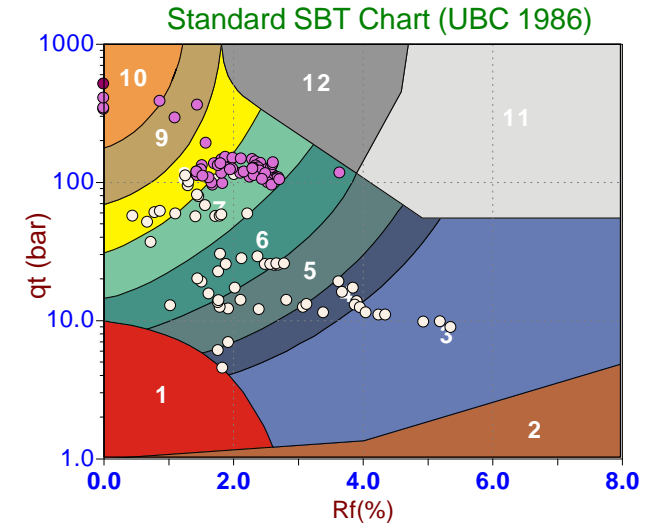
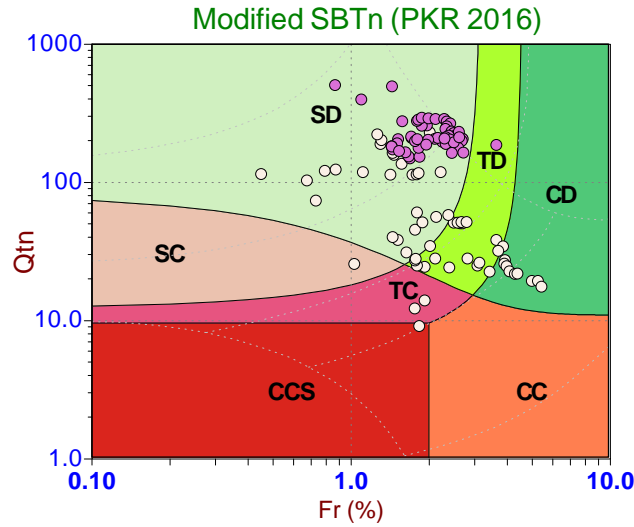
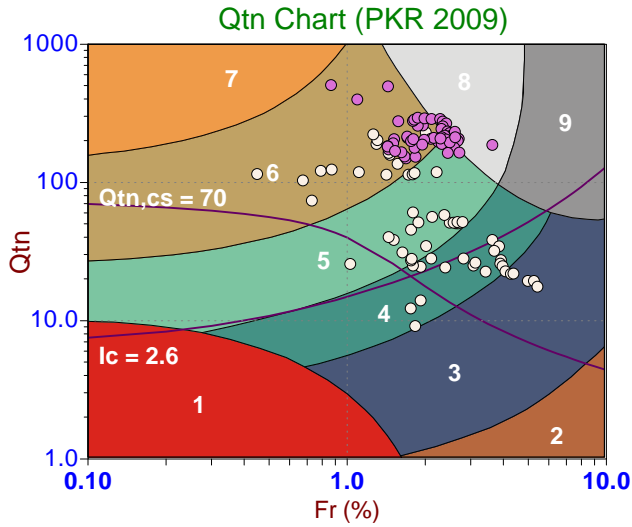
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 09:36  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-113  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

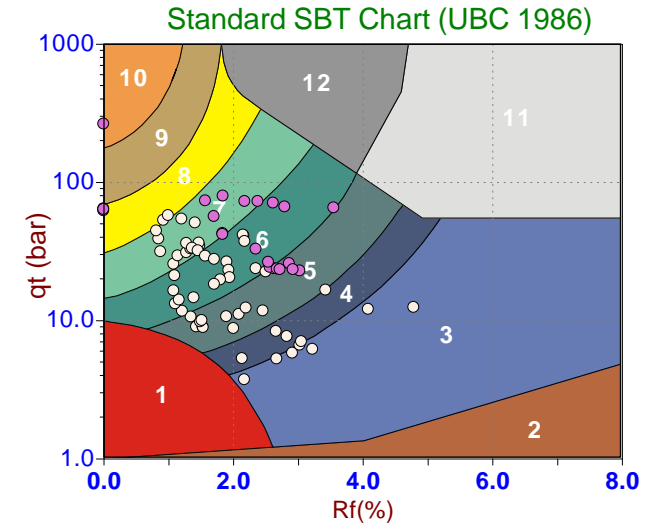
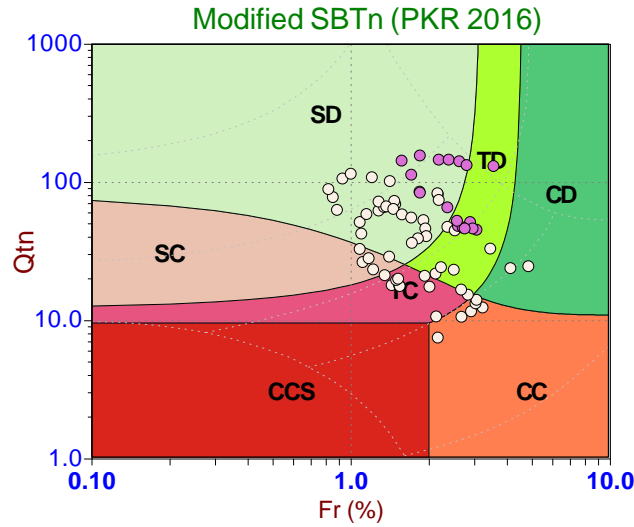
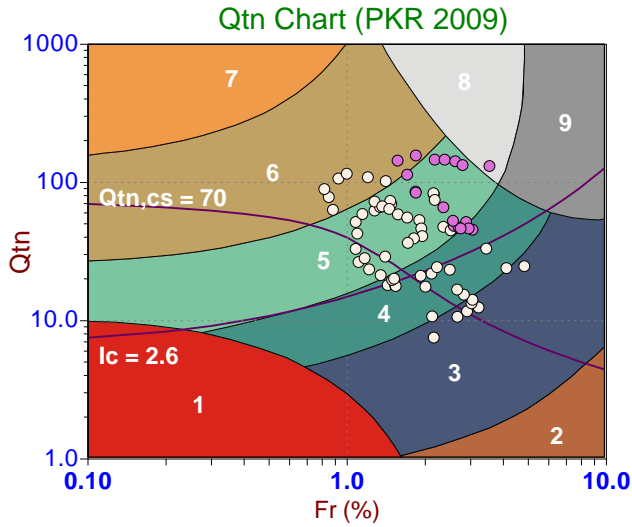
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-24 09:03  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-115  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

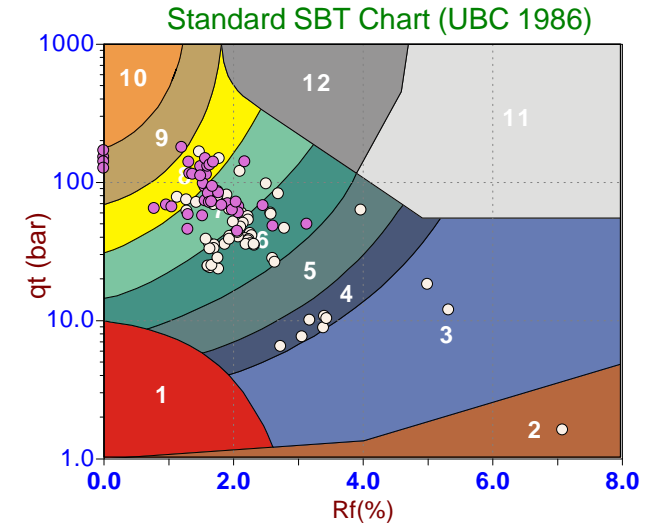
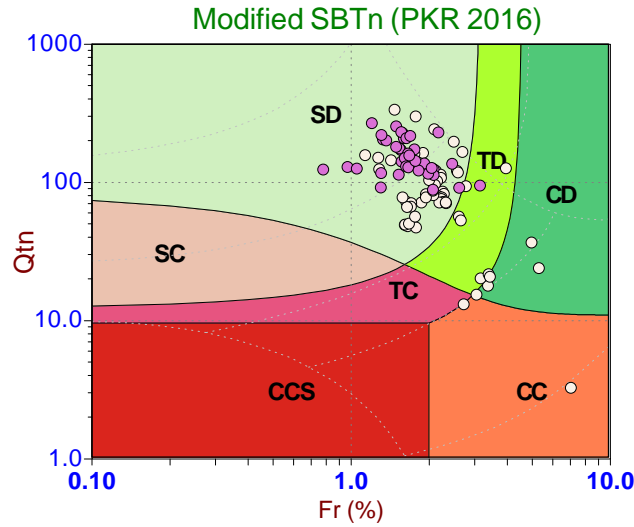
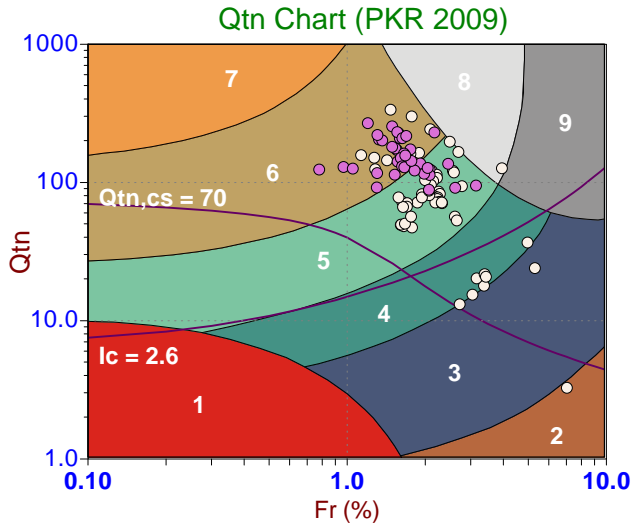
Job No: 23-53-26729

Date: 2023-10-24 10:14

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-120

Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

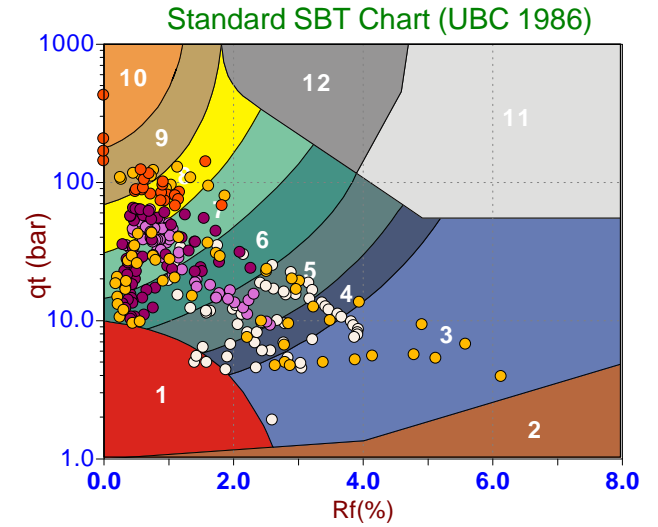
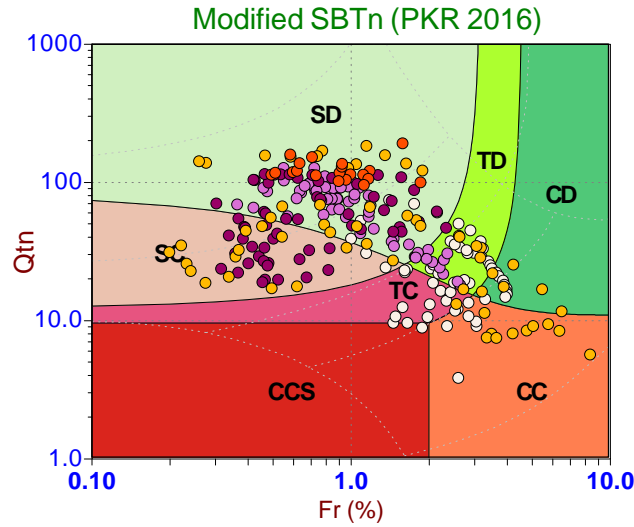
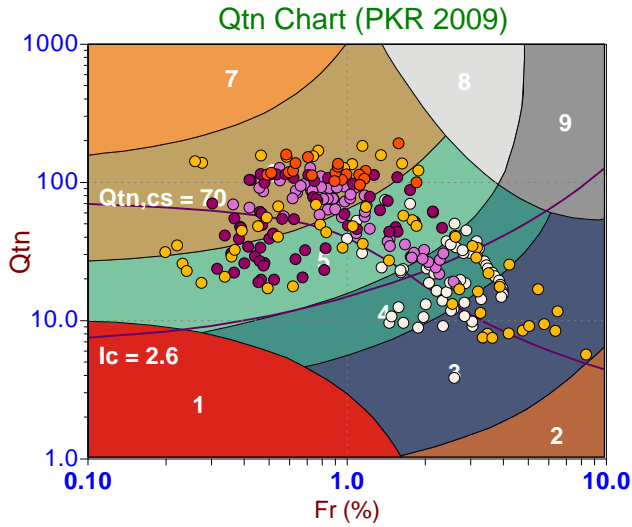
Job No: 23-53-26729

Date: 2023-10-27 14:56

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-208

Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

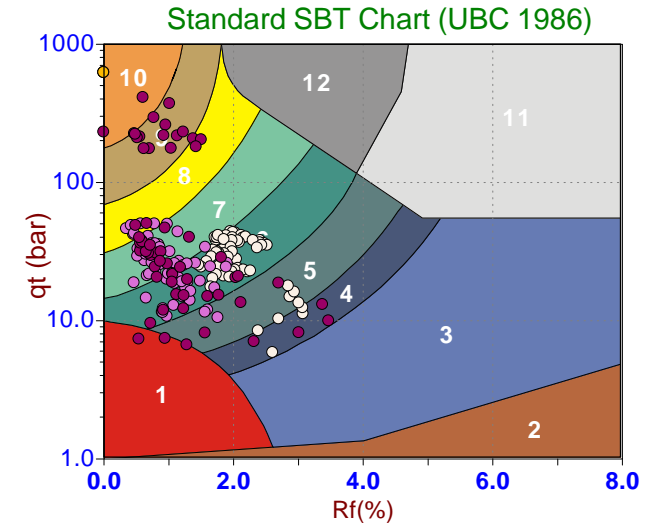
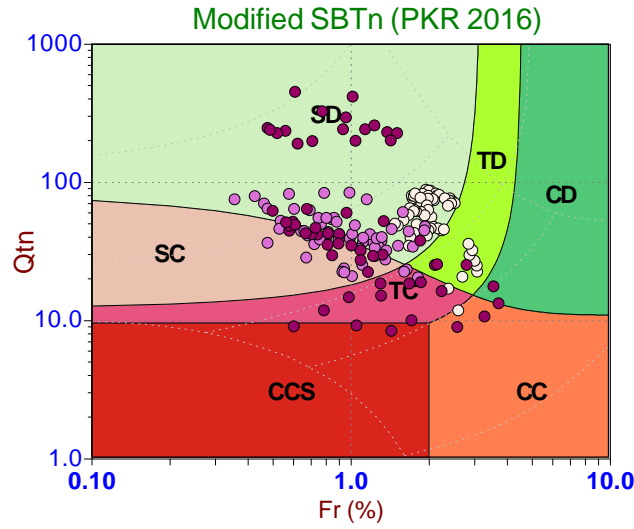
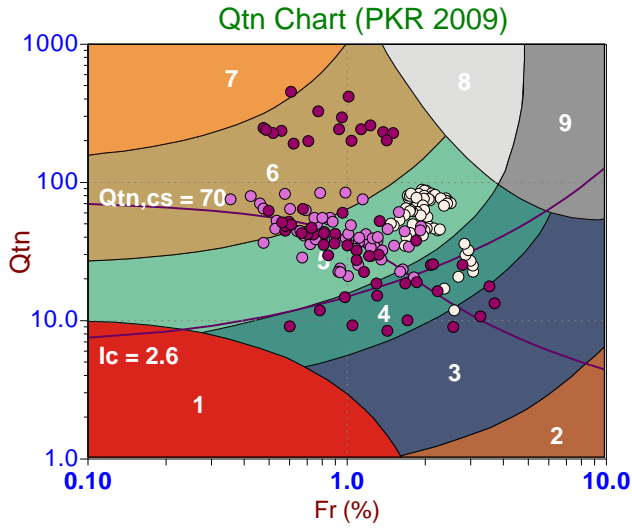
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 10:44  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-221  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

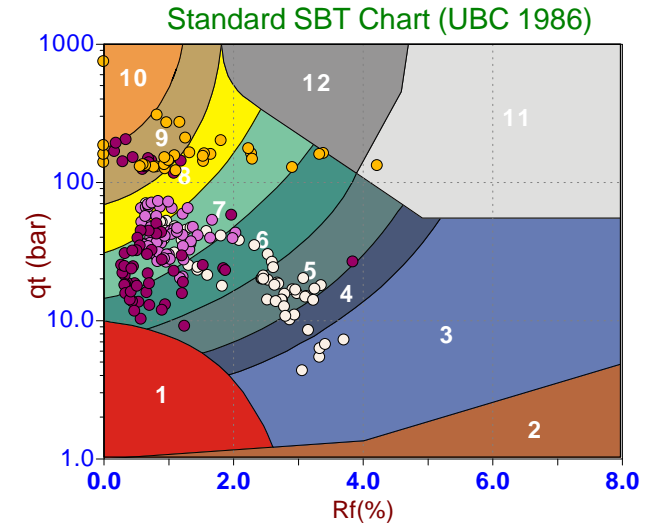
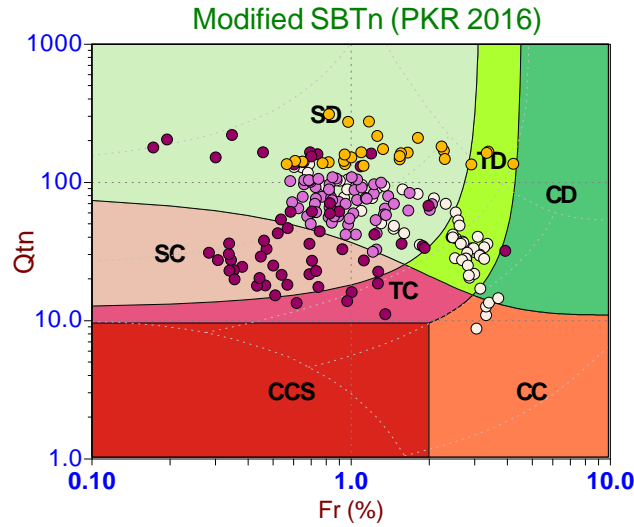
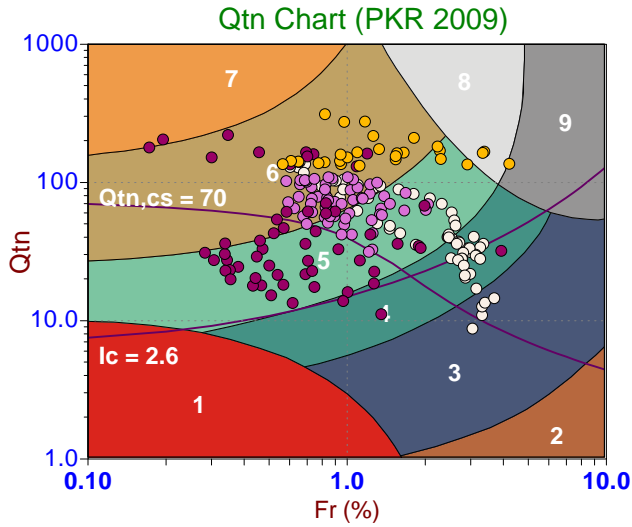
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 11:16  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-222  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

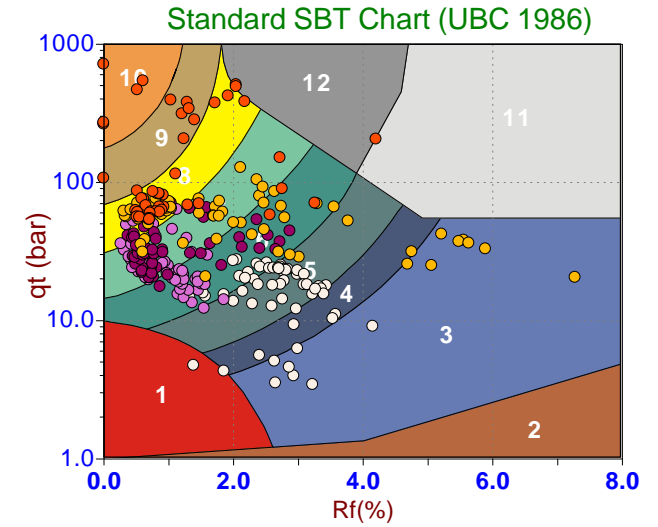
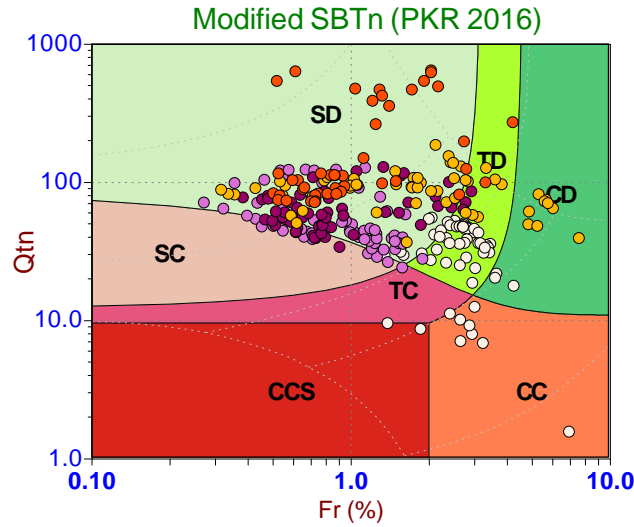
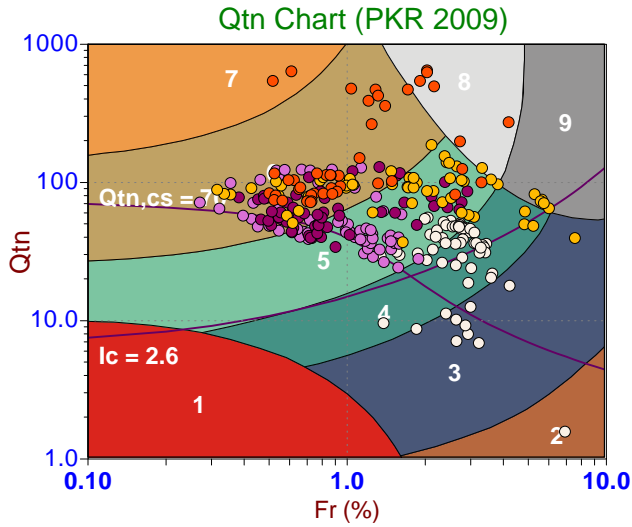
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 14:26  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-225  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand

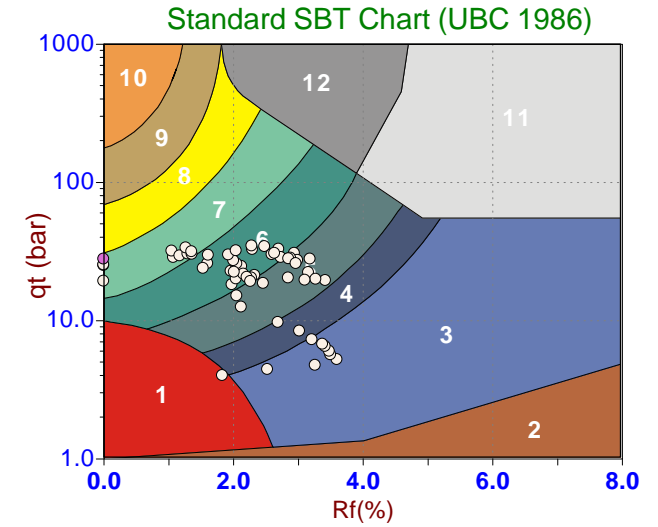
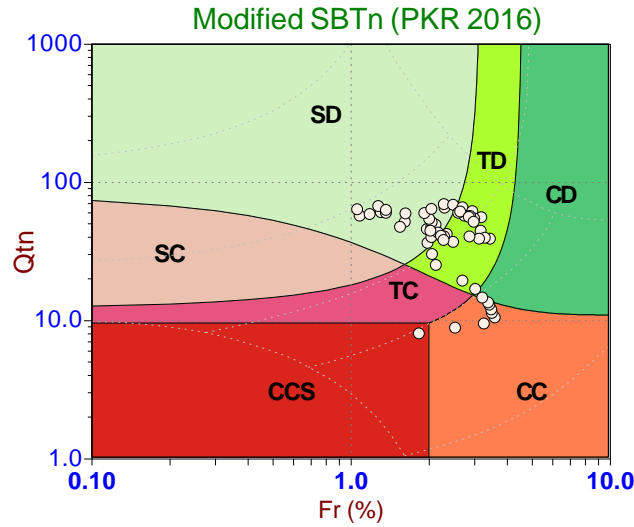
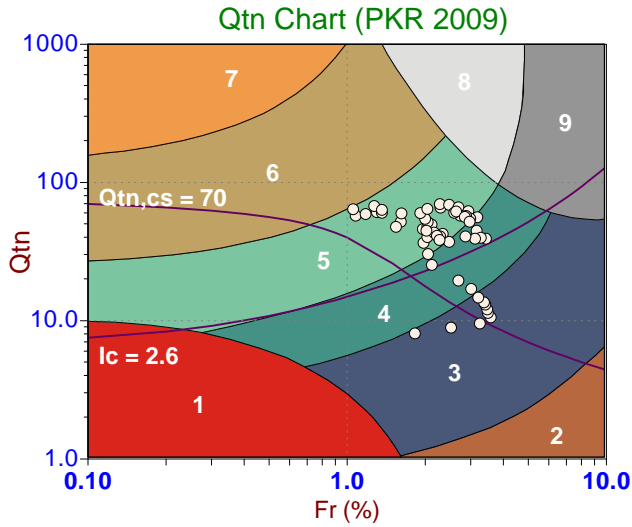




**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 12:08  
Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-228  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

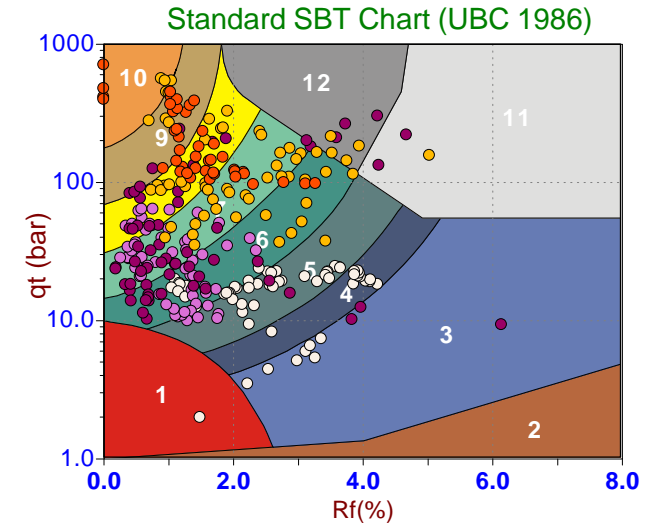
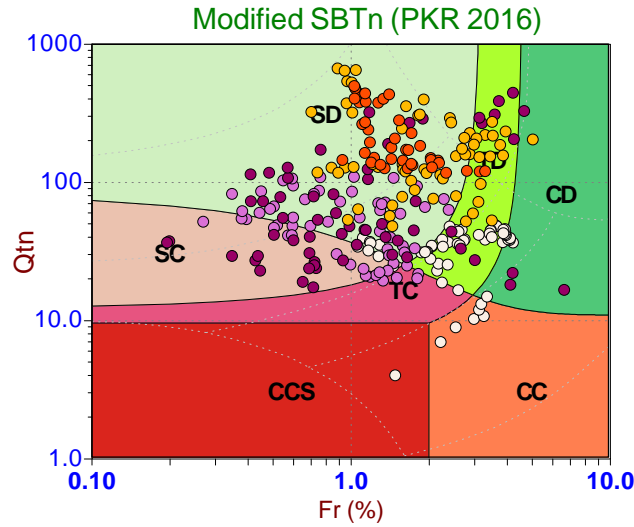
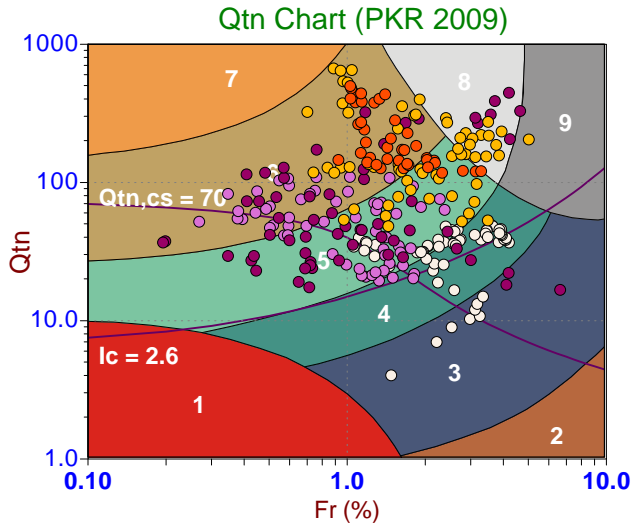
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 13:08  
Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-228A  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

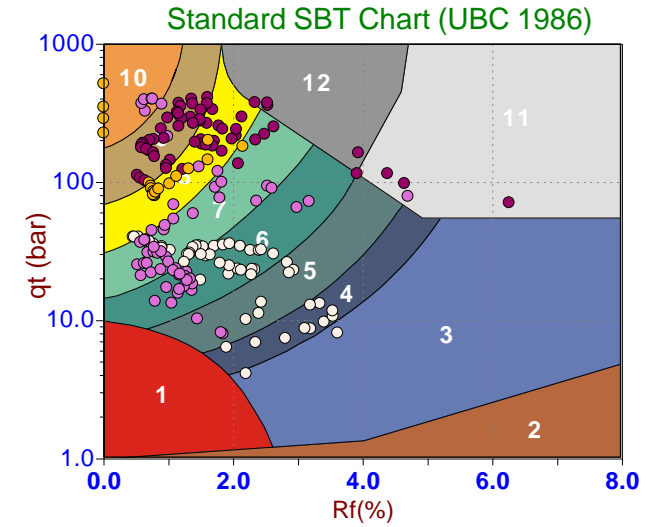
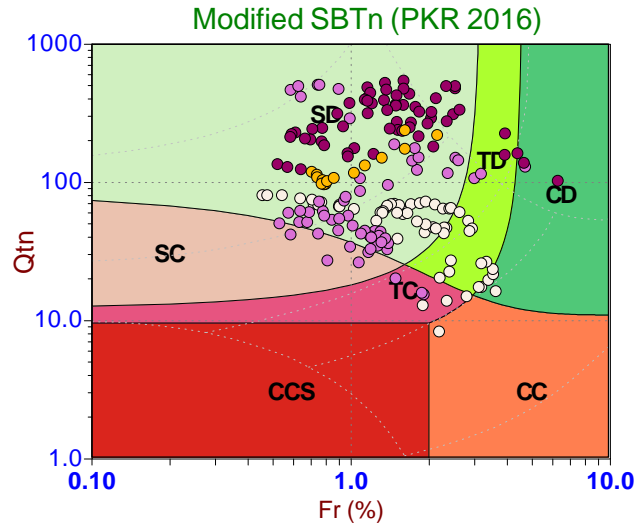
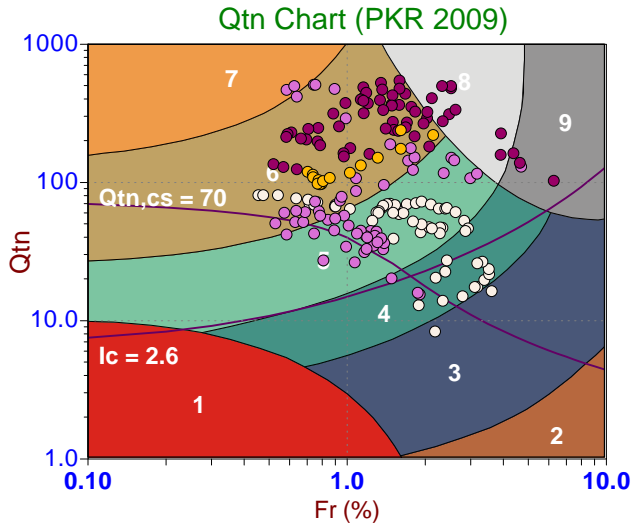
Job No: 23-53-26729

Date: 2023-10-27 09:53

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-237

Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

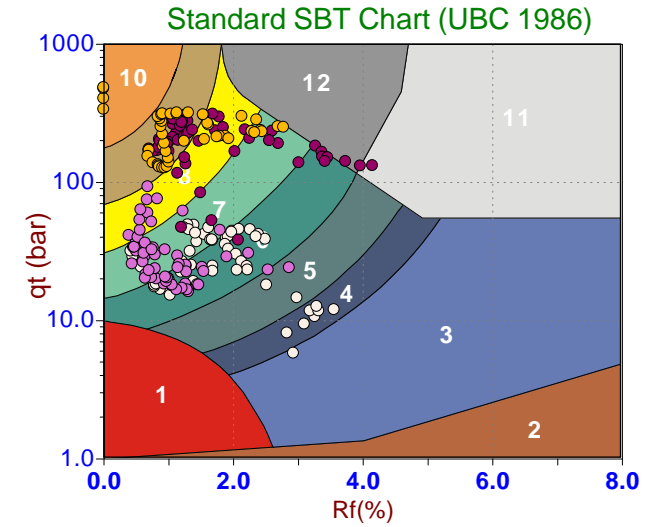
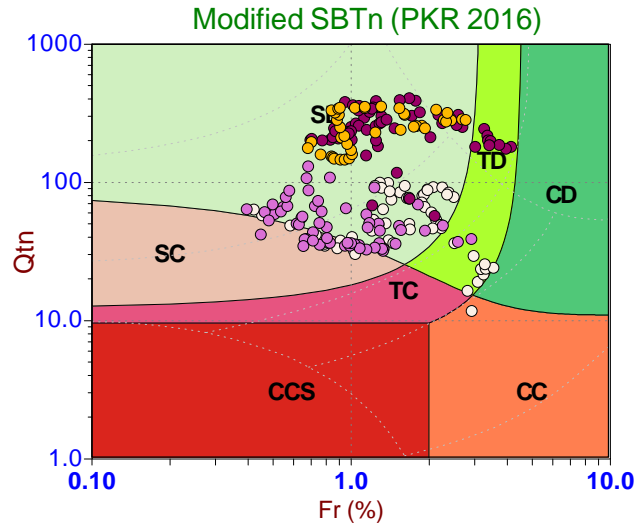
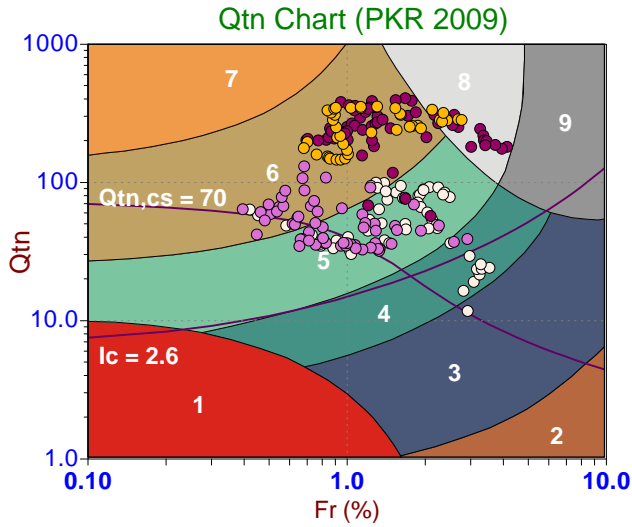
Job No: 23-53-26729

Date: 2023-10-27 10:16

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-238

Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

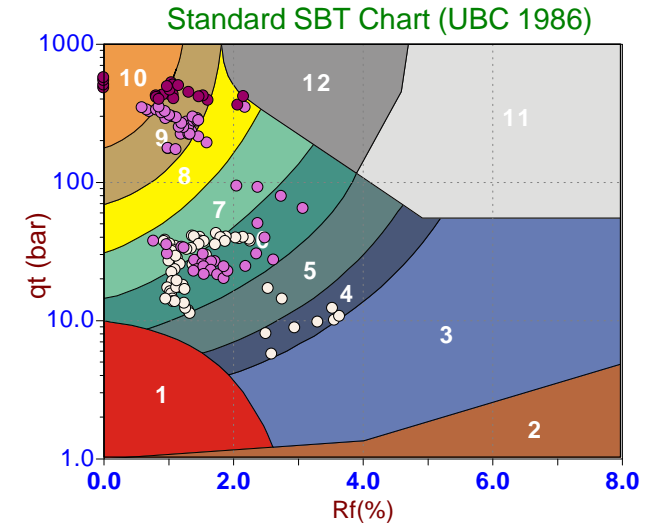
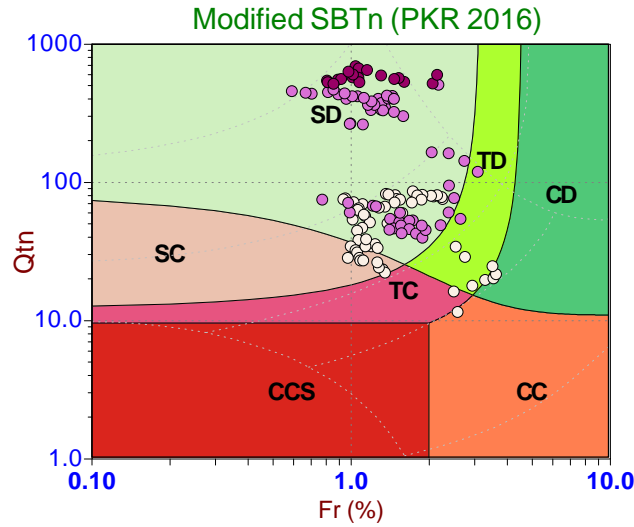
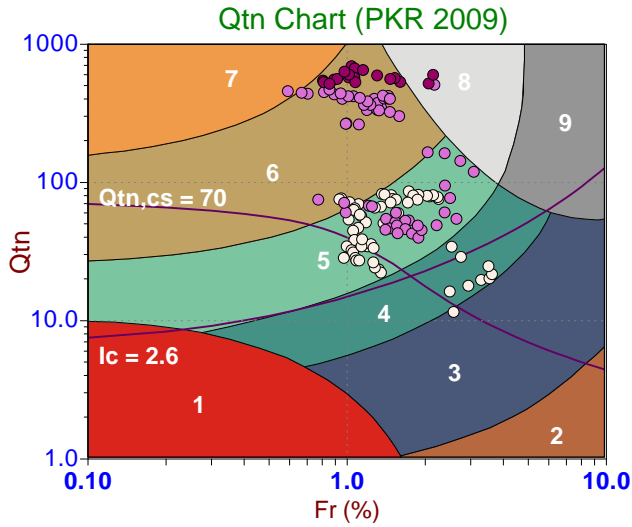
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 07:33  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-243  
Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

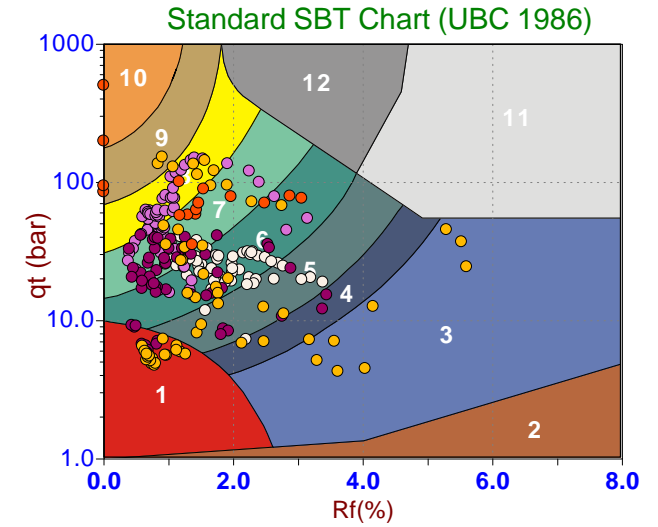
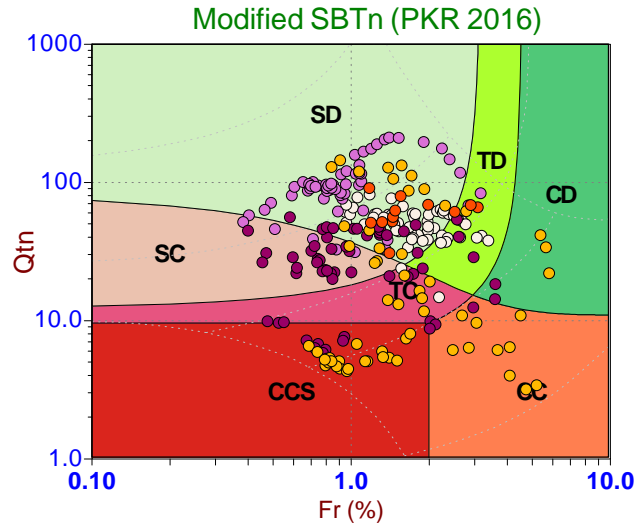
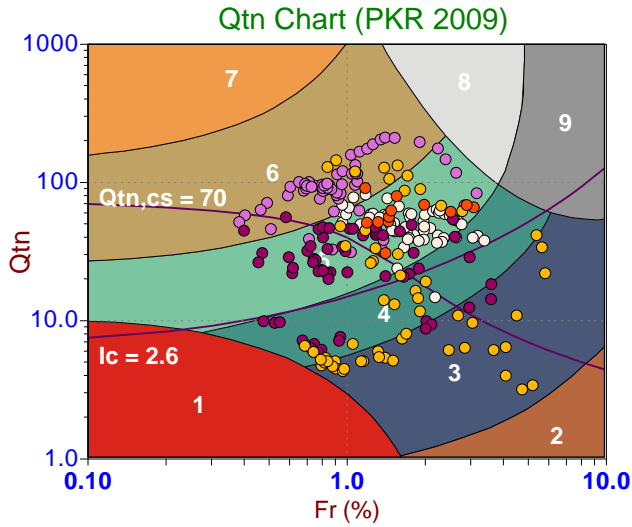
Job No: 23-53-26729

Date: 2023-10-26 09:50

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-244

Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

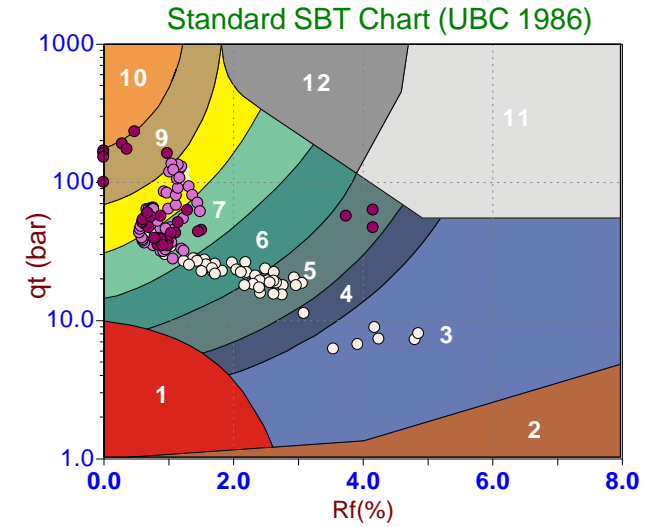
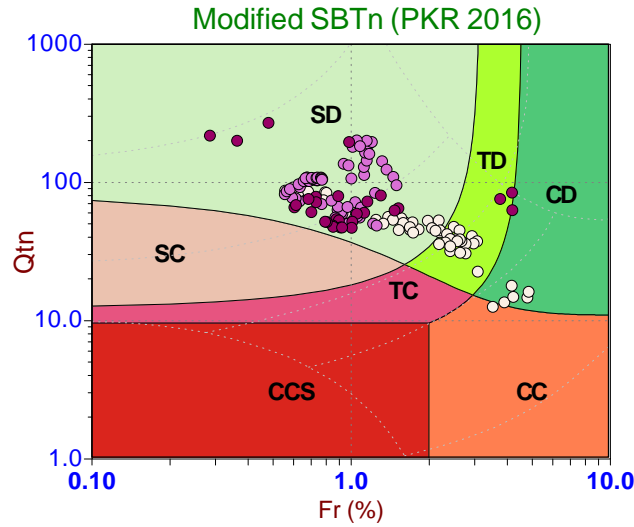
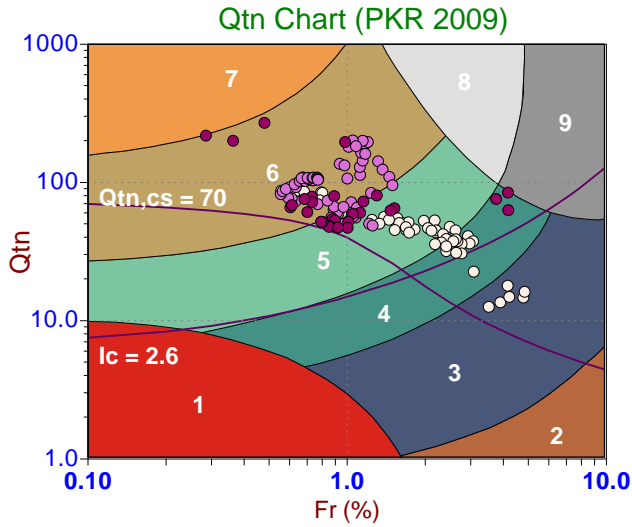
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 11:06  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-246  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

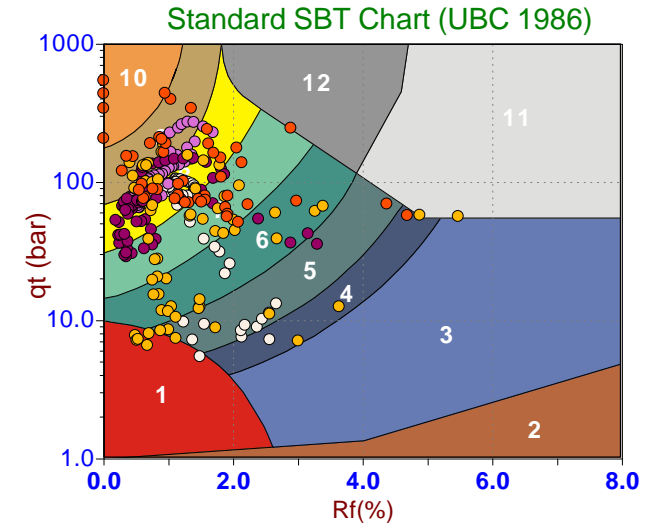
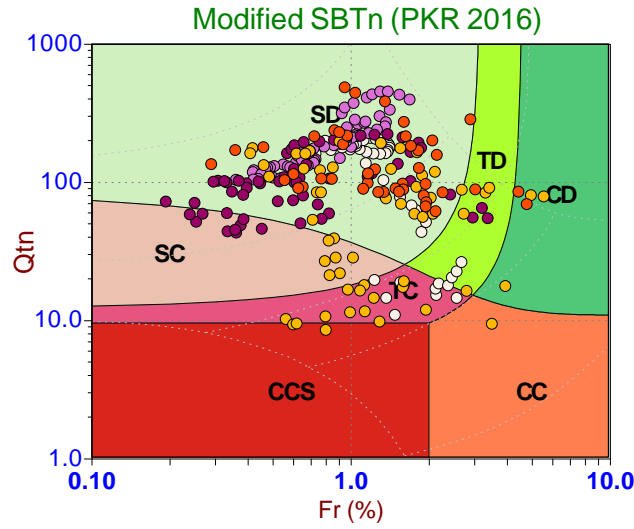
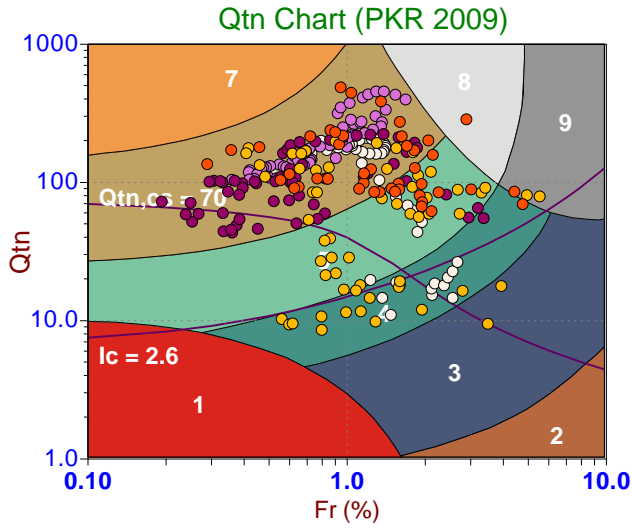
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



*CME Associates*

Job No: 23-53-26729  
Date: 2023-10-26 12:00  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-252  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand

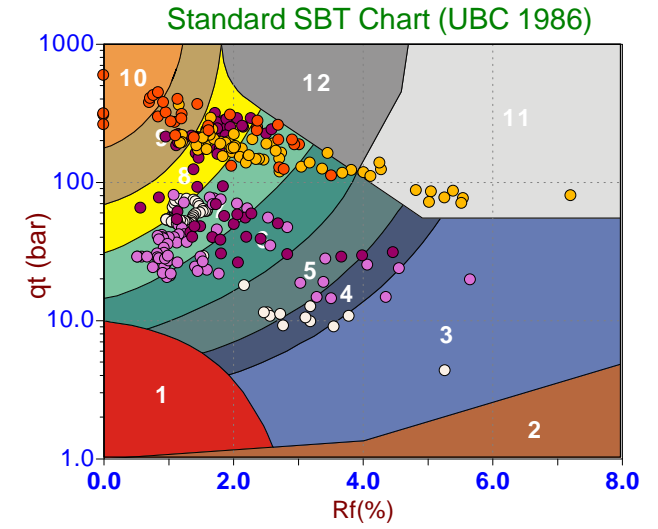
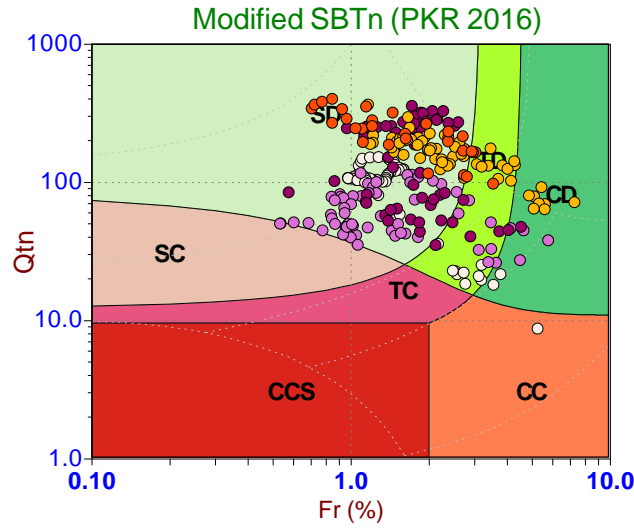
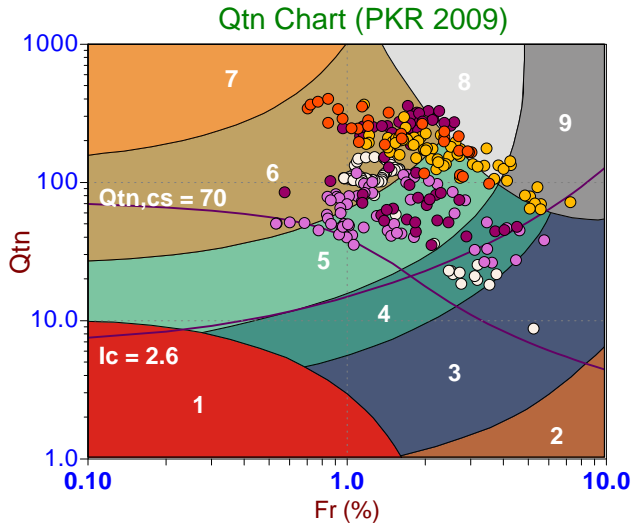




**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 12:47  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-261  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

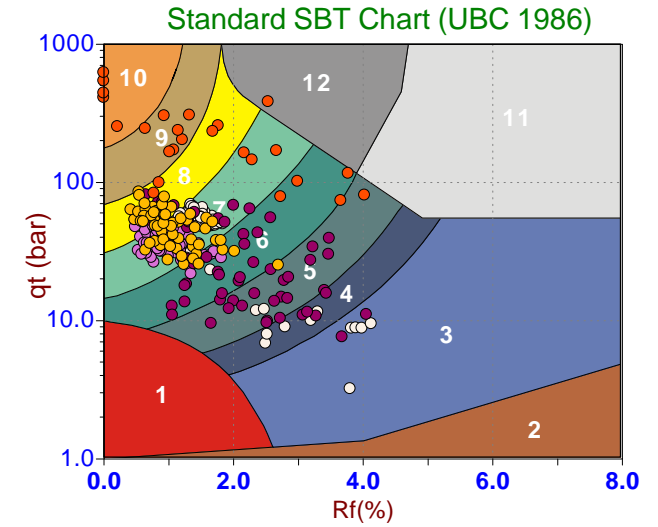
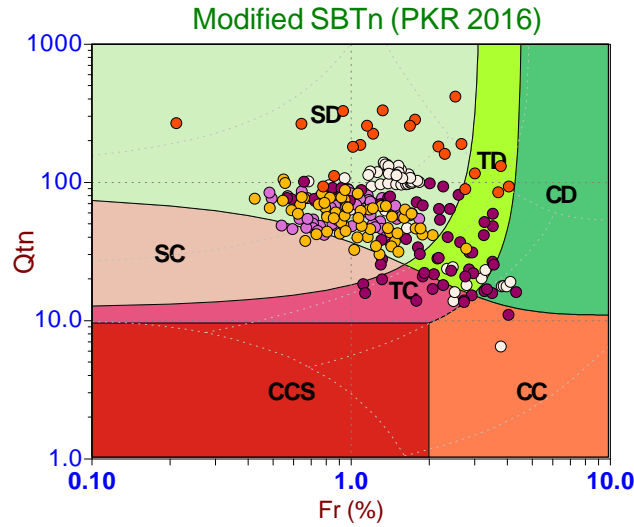
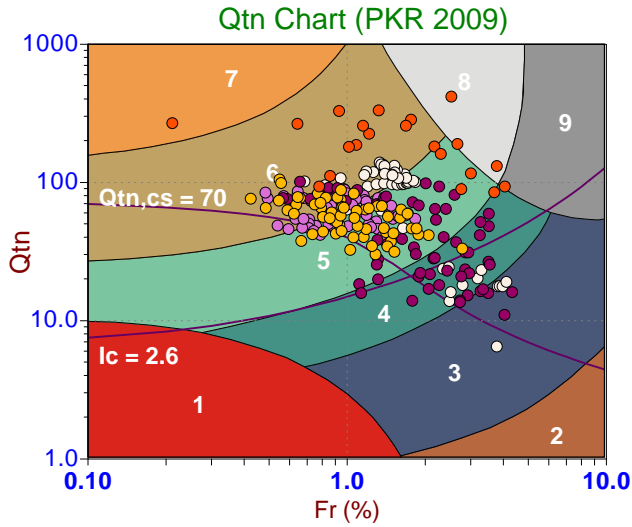
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 15:56  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-262  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

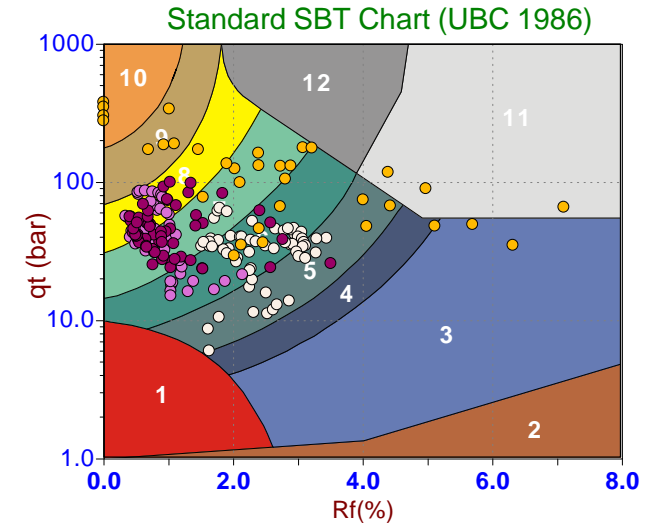
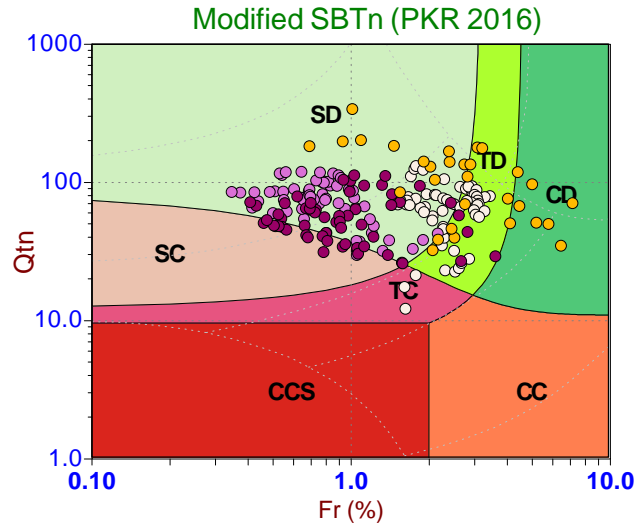
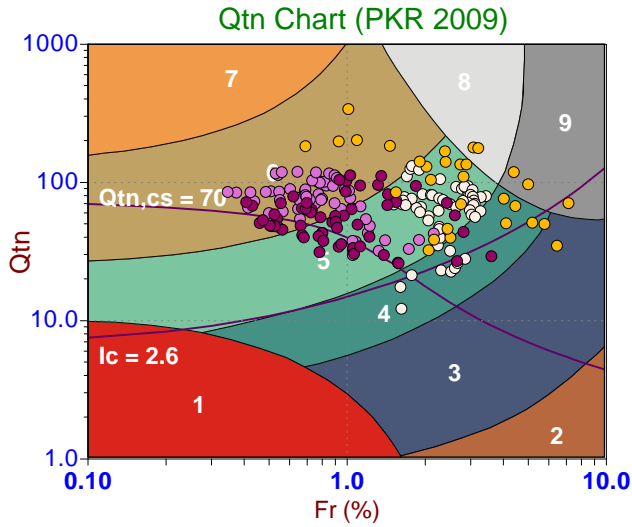
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 13:48  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-270  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

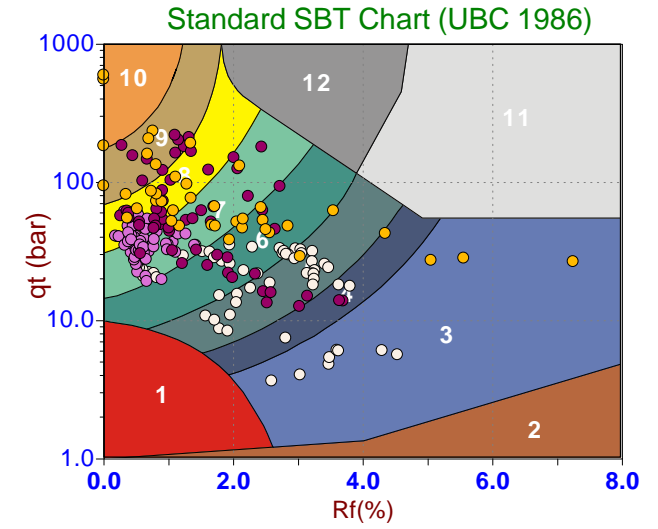
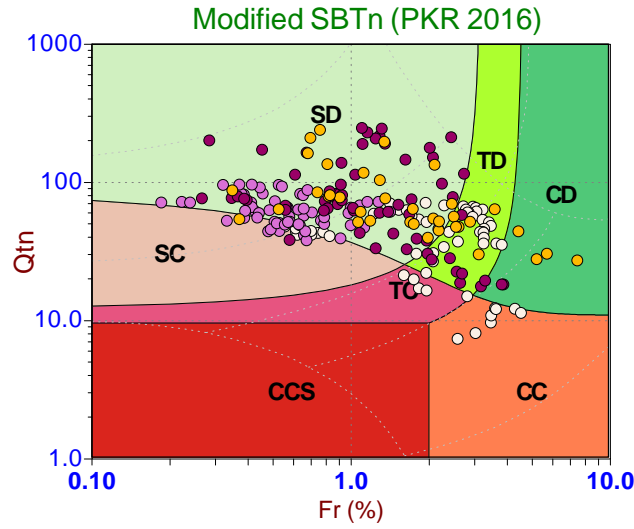
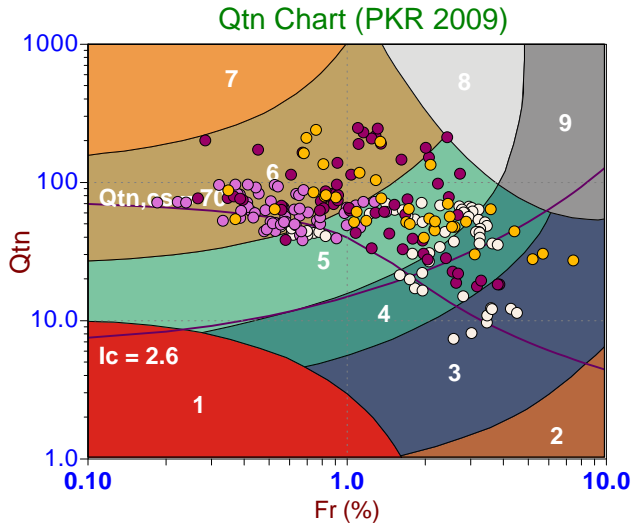
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 14:26  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-280  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

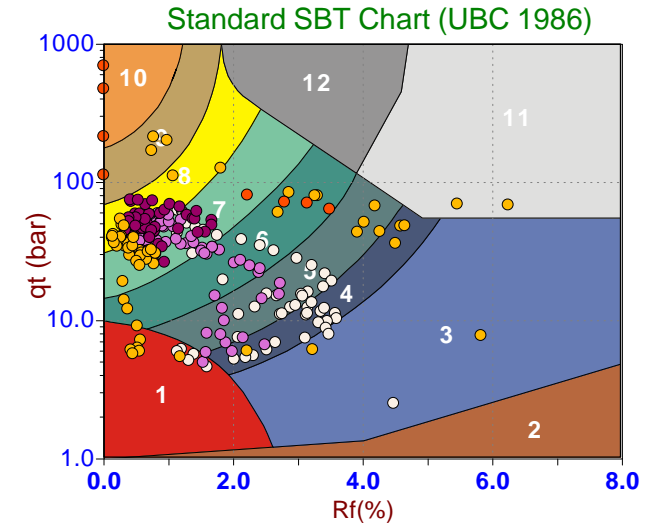
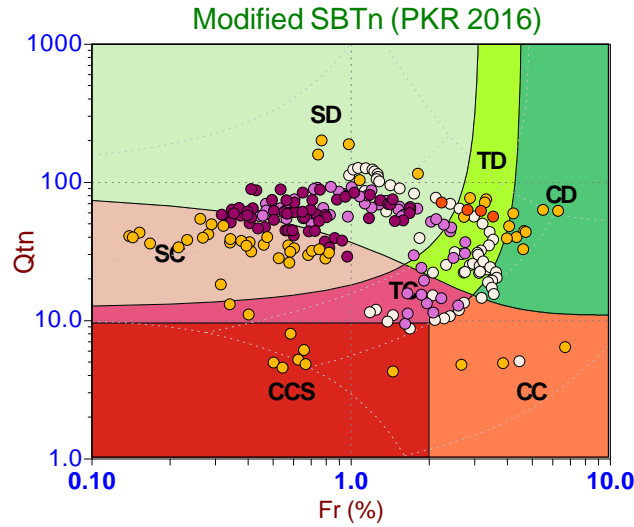
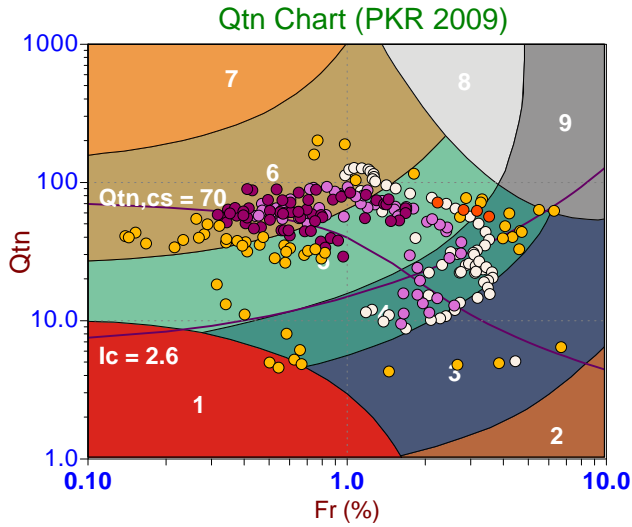
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-26 15:06  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-282  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

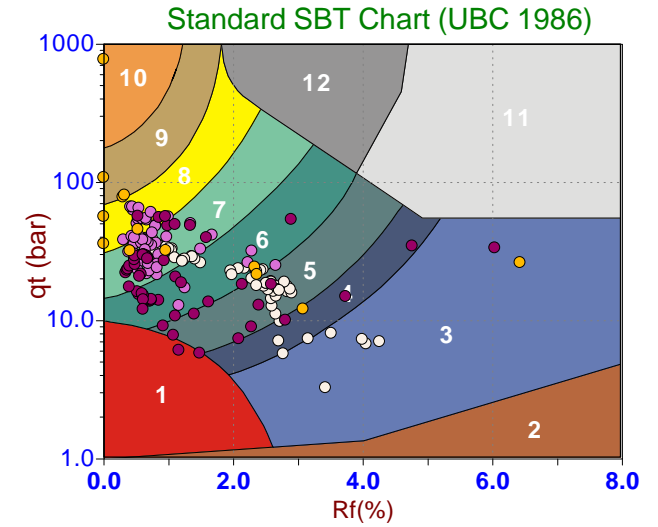
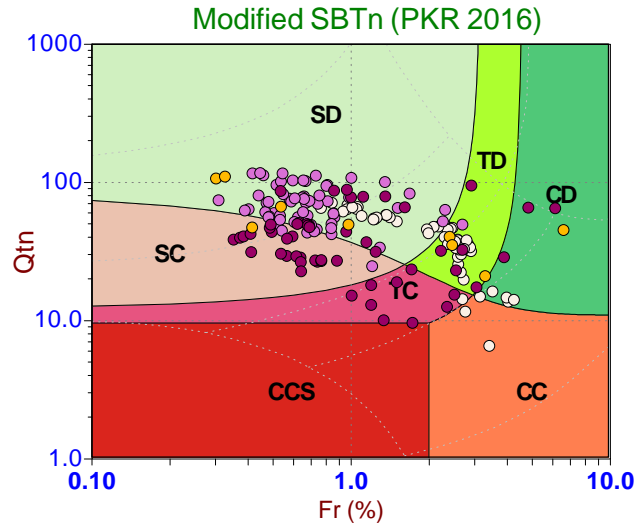
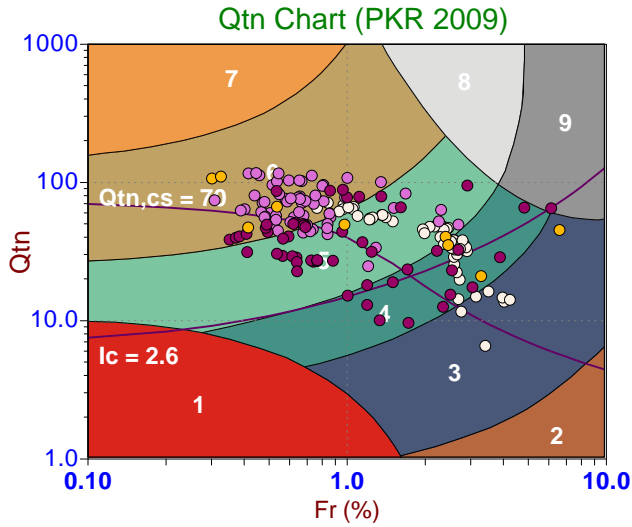
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 08:32  
Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-293  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



CME Associates

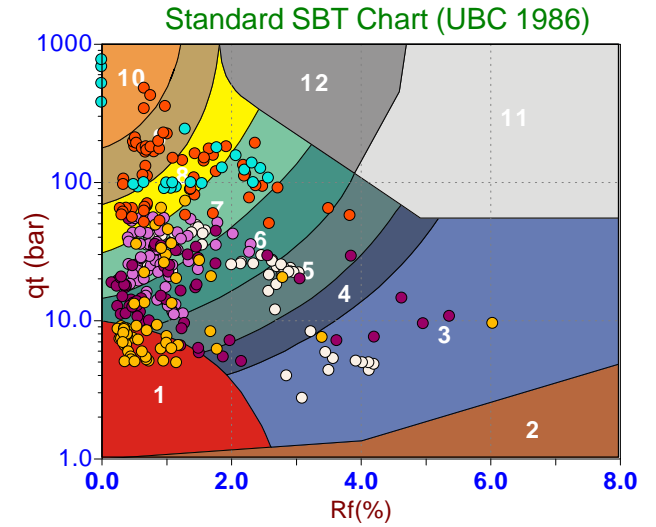
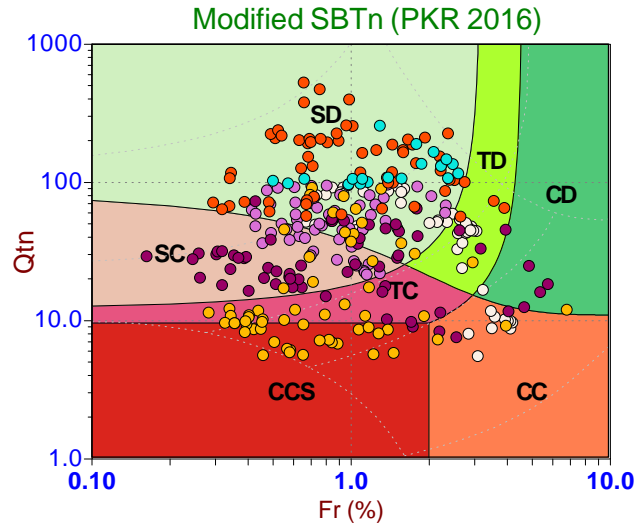
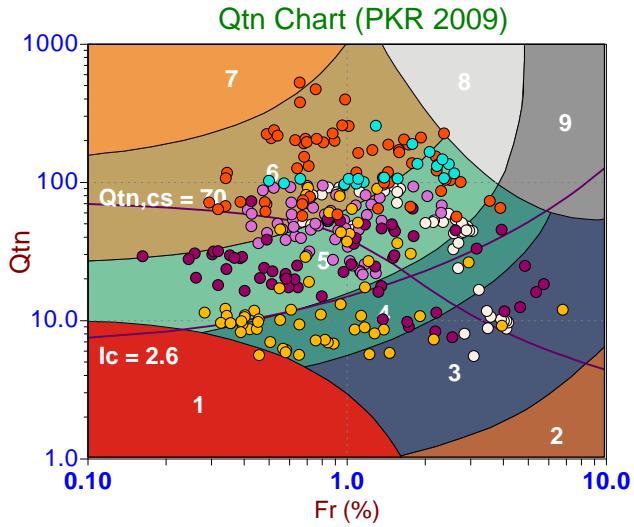
Job No: 23-53-26729

Date: 2023-10-26 08:32

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-312

Cone: 604:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

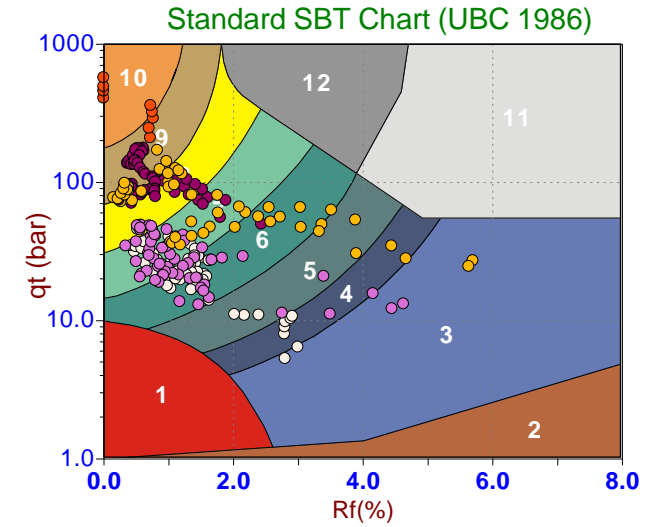
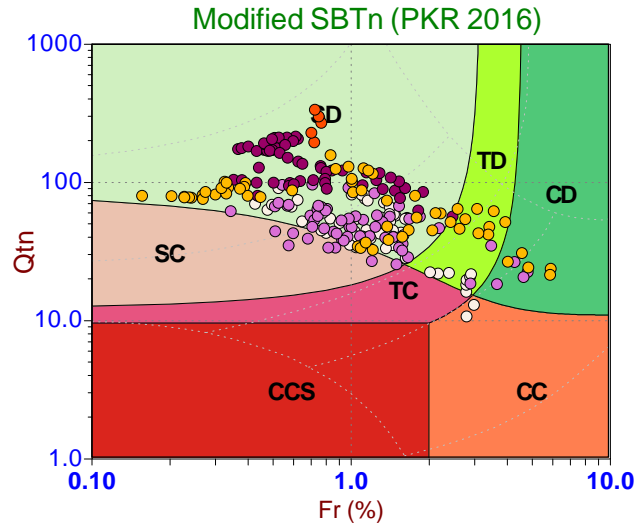
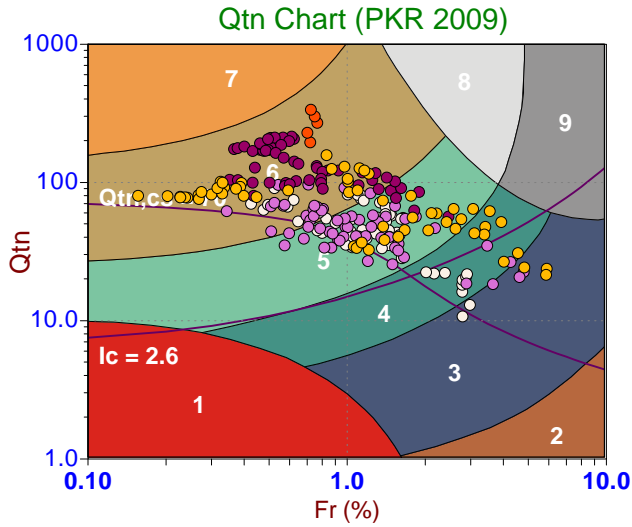
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 11:06  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-325  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand

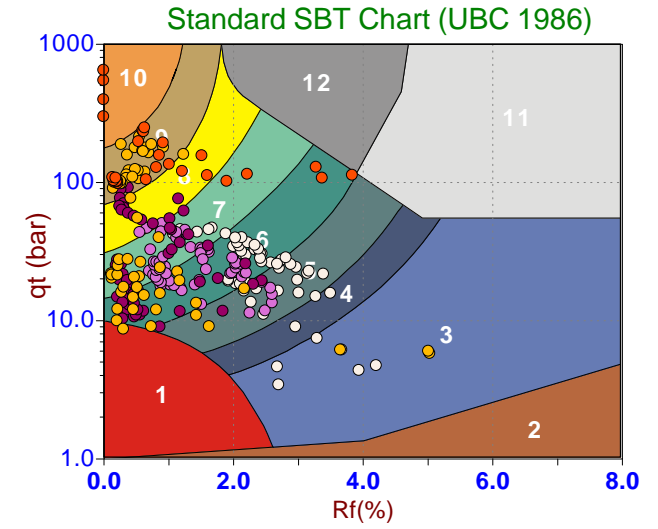
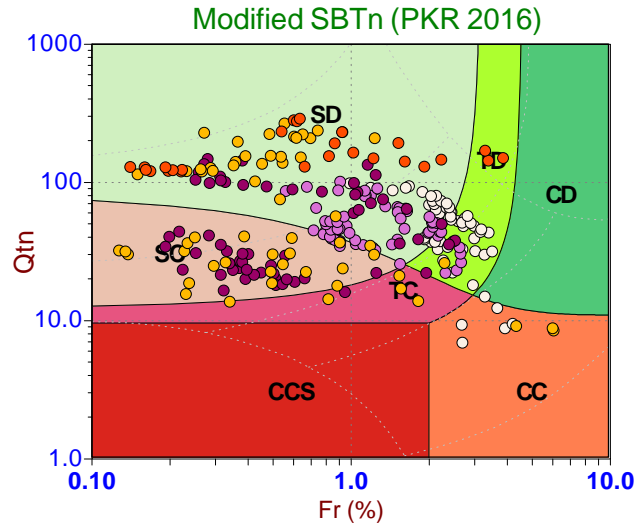
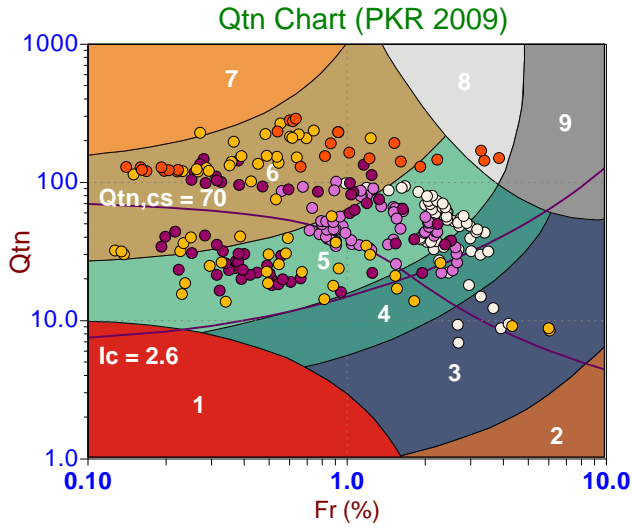




**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 10:06  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-327  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

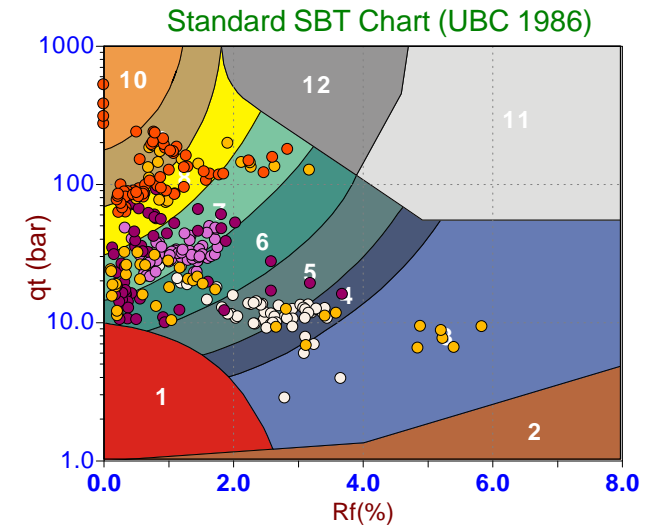
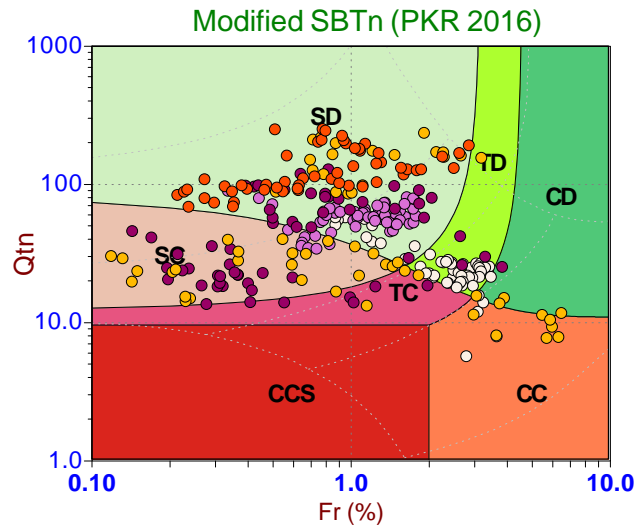
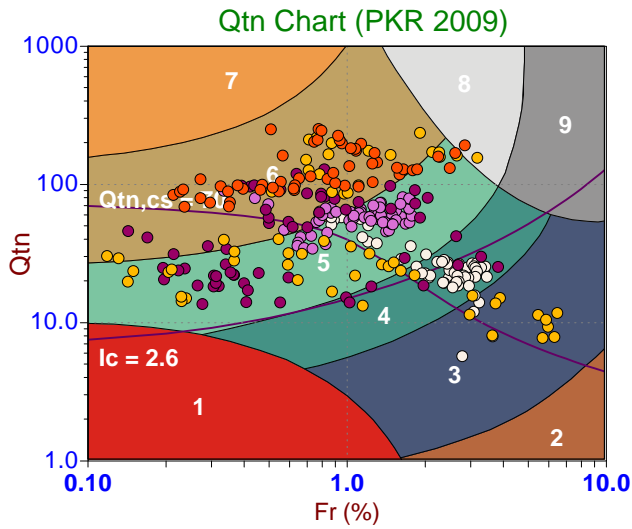
Job No: 23-53-26729

Date: 2023-10-28 09:35

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-329

Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

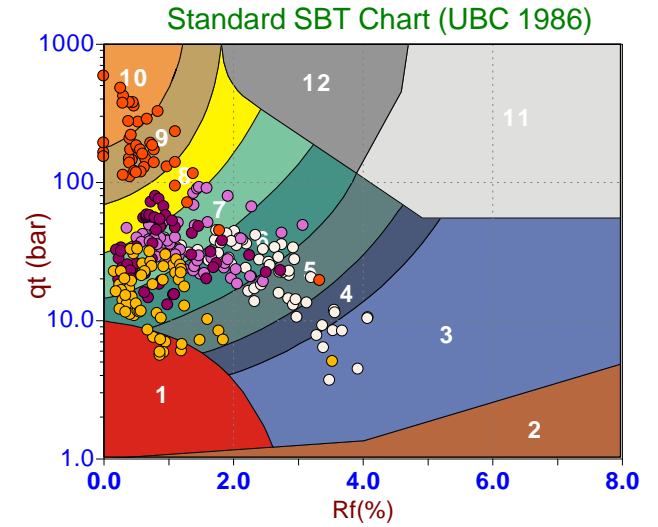
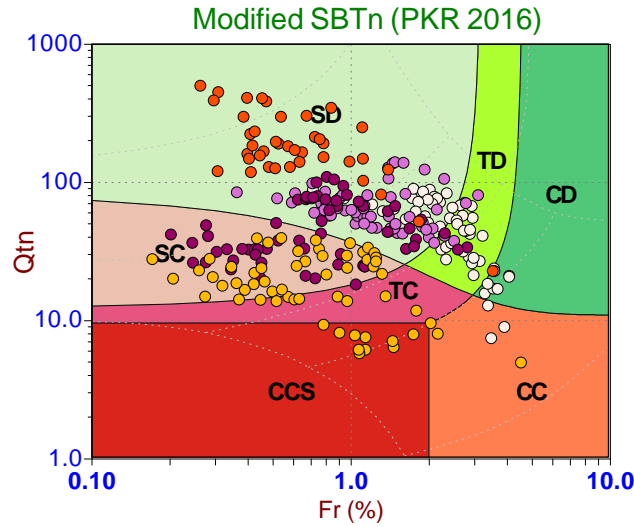
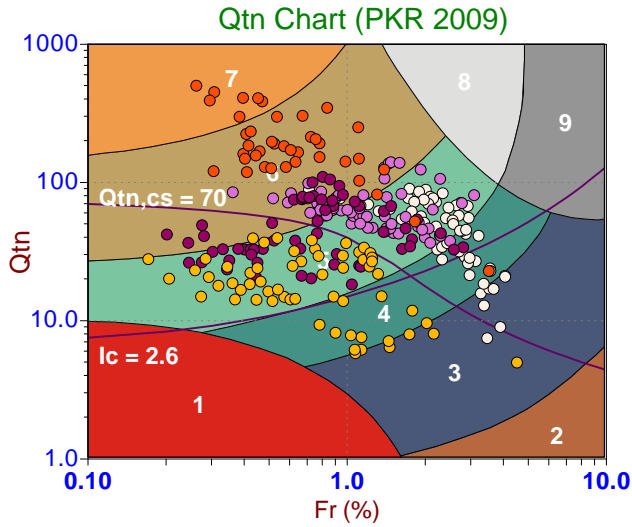
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 08:46  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-330  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

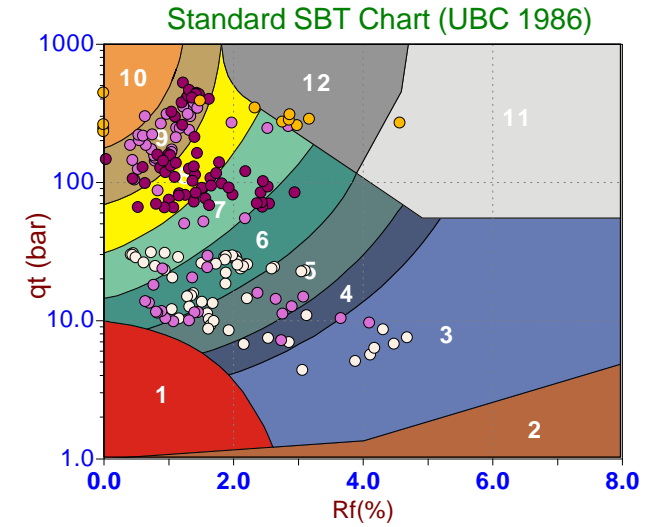
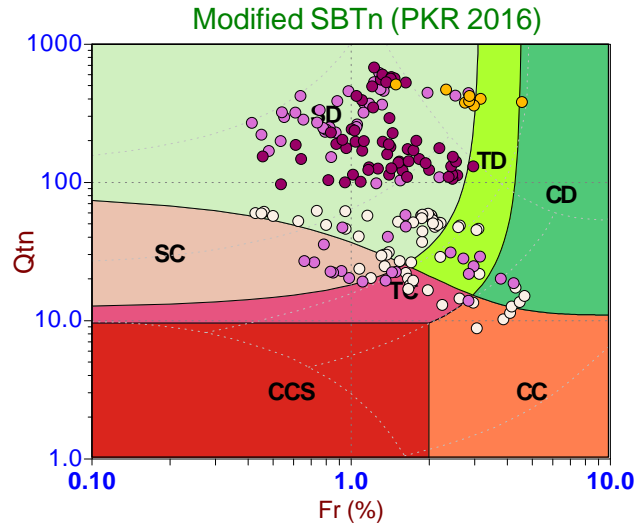
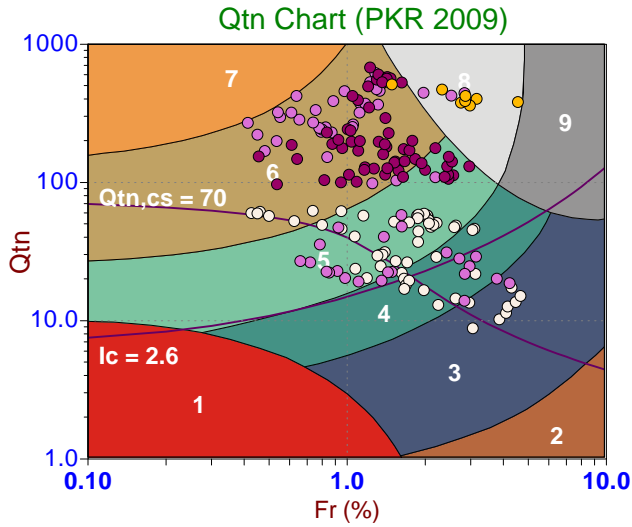
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 07:24  
Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-332  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

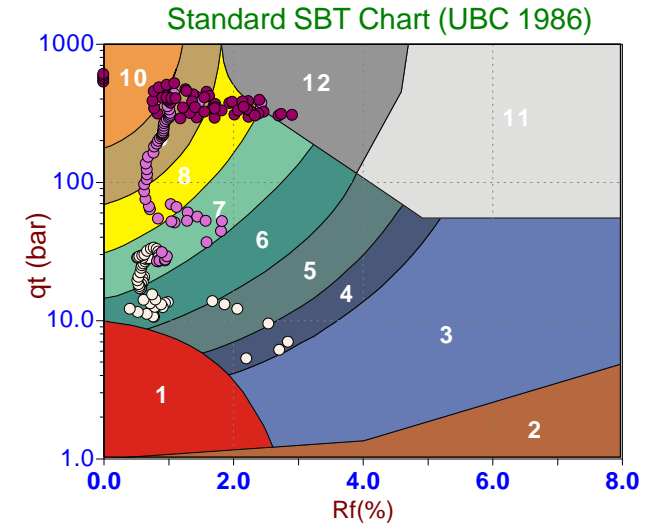
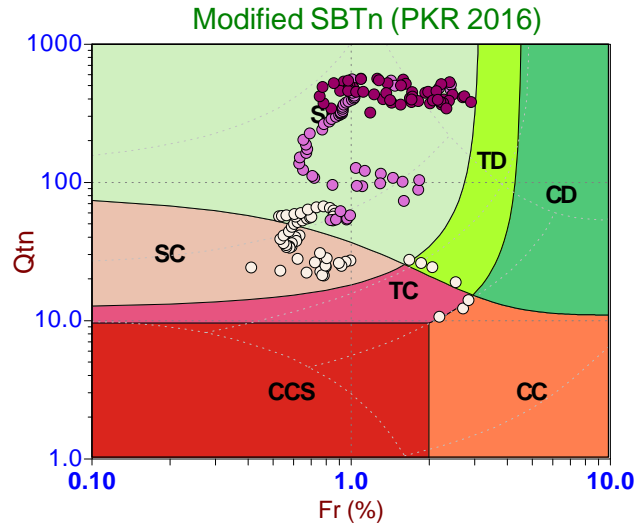
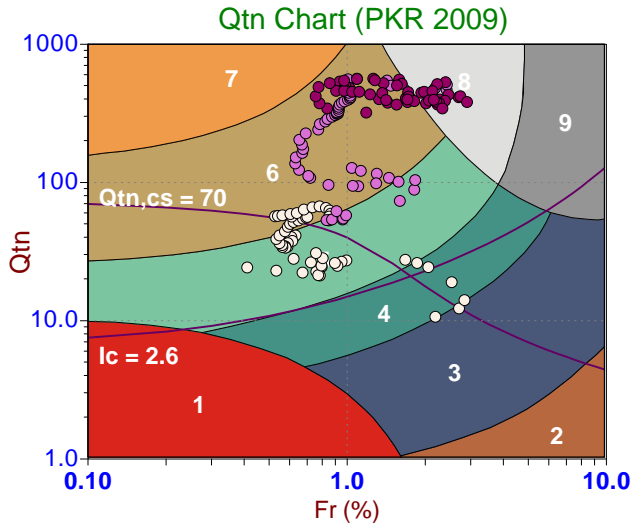
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 16:22  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-345  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

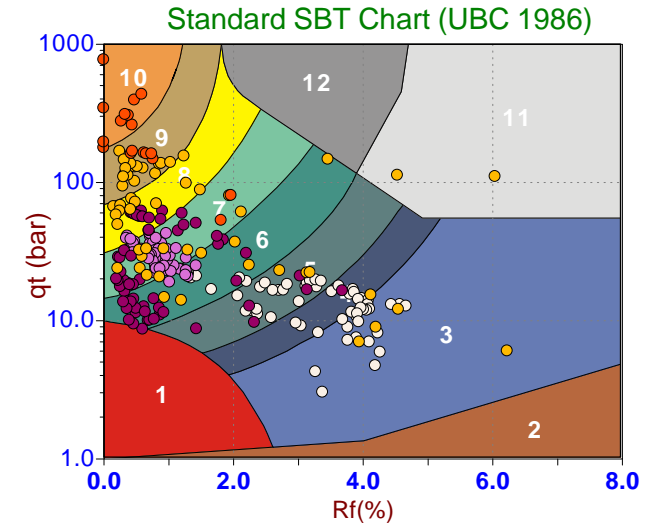
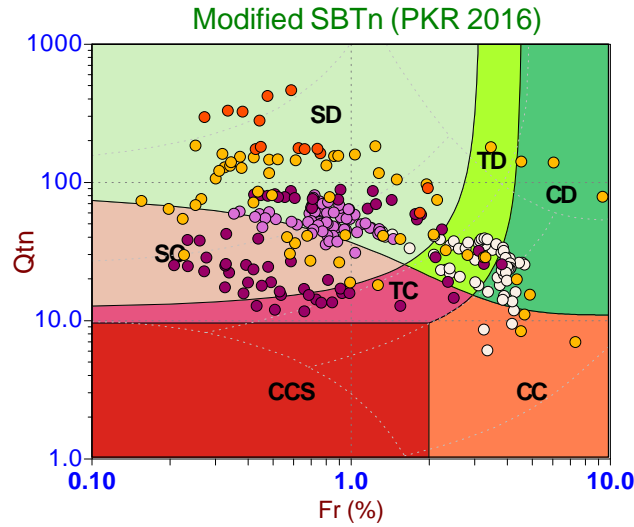
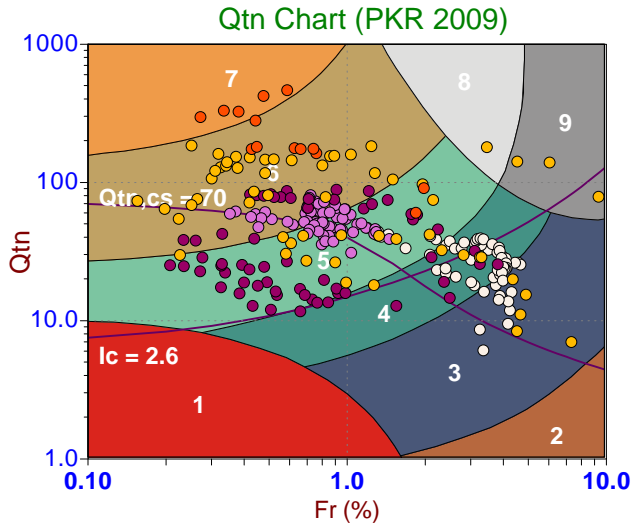
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-27 15:44  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-351  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

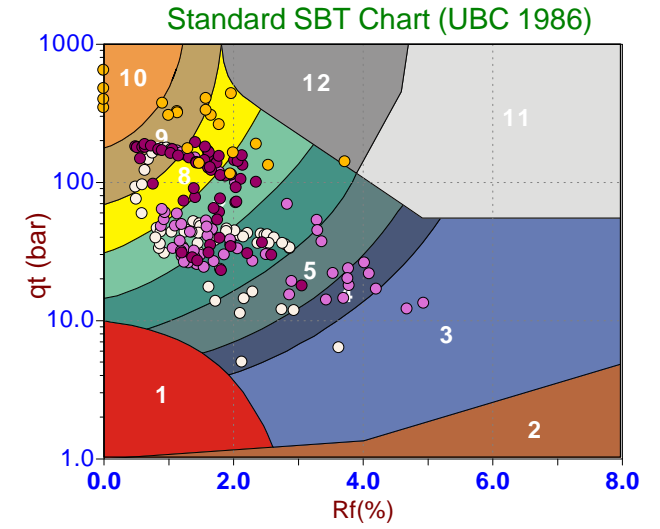
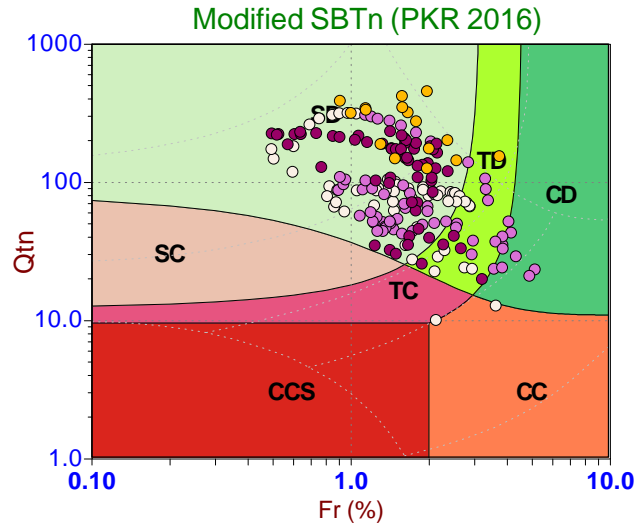
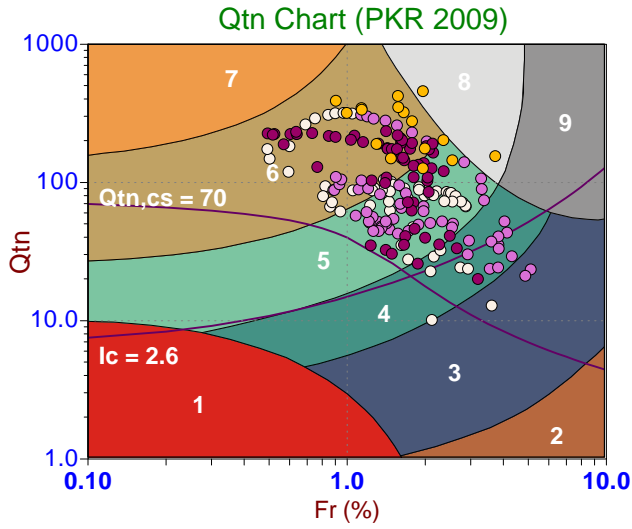
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 15:41  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-360  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

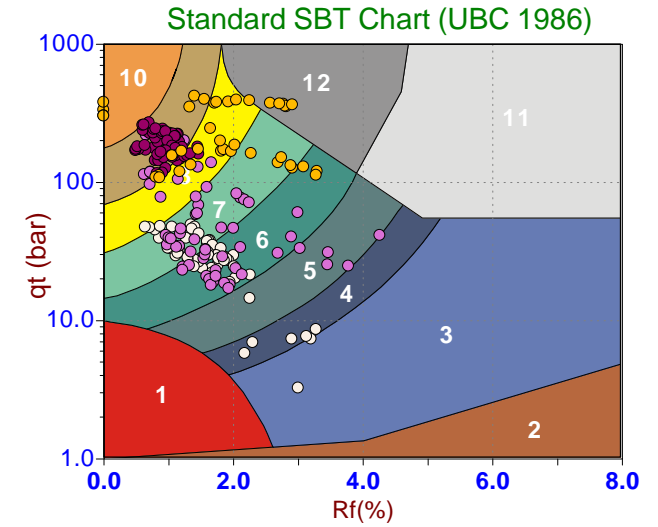
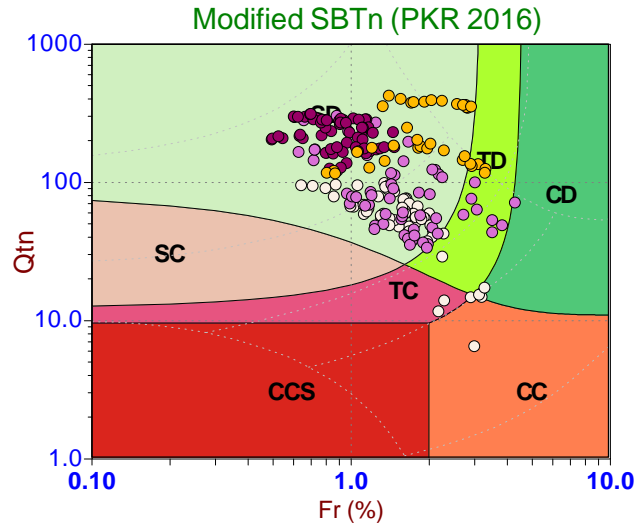
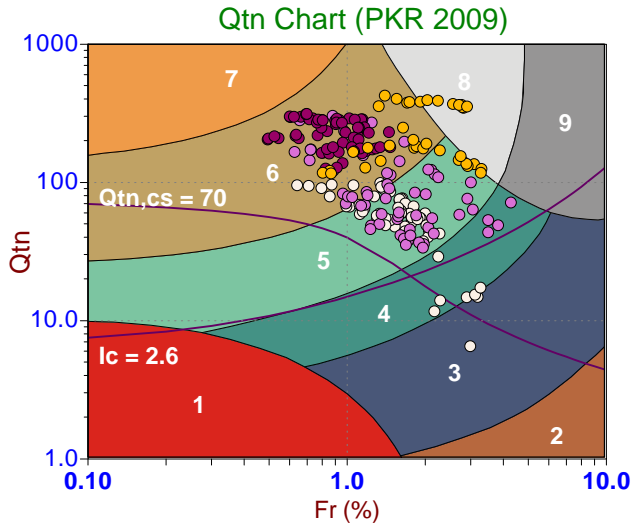
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 15:11  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-362  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand

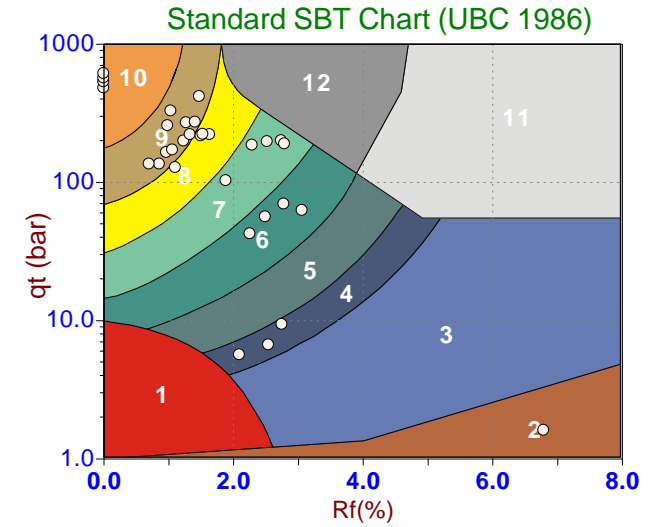
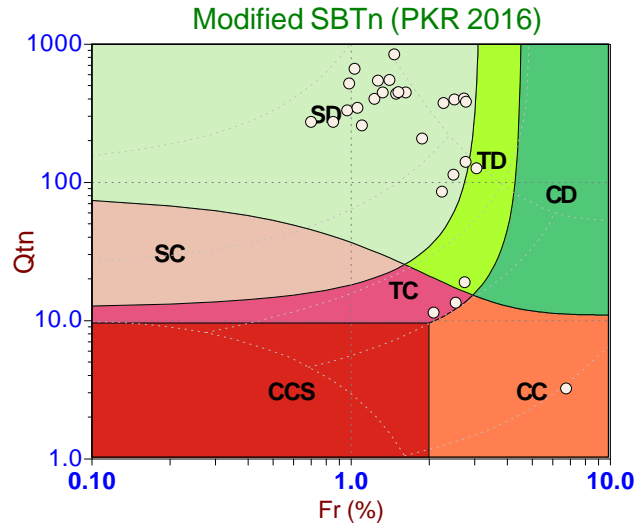
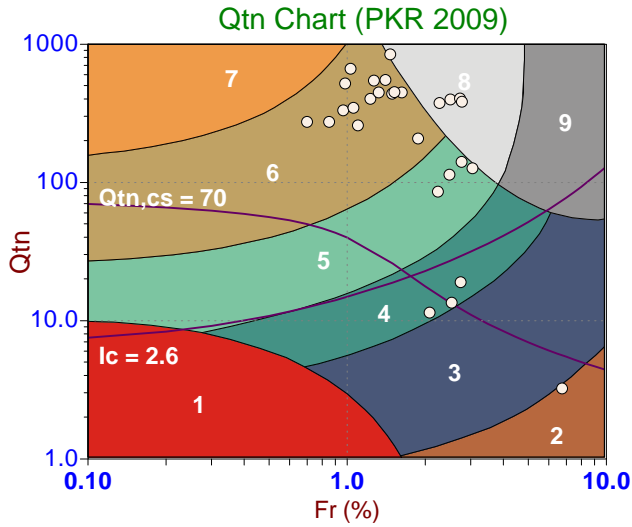




**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 14:34  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-365  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

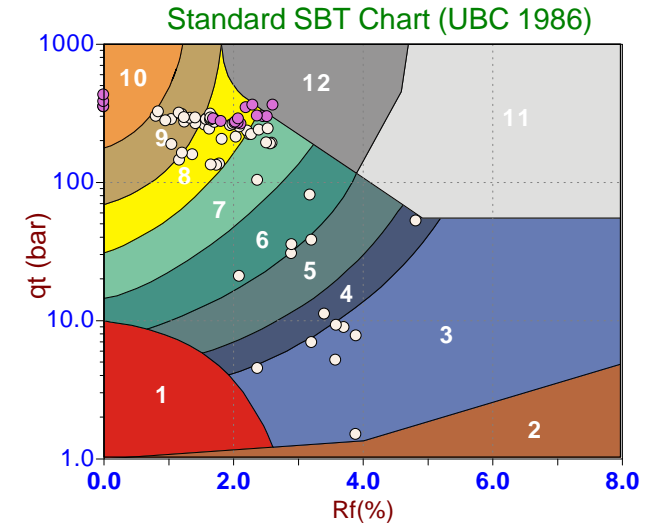
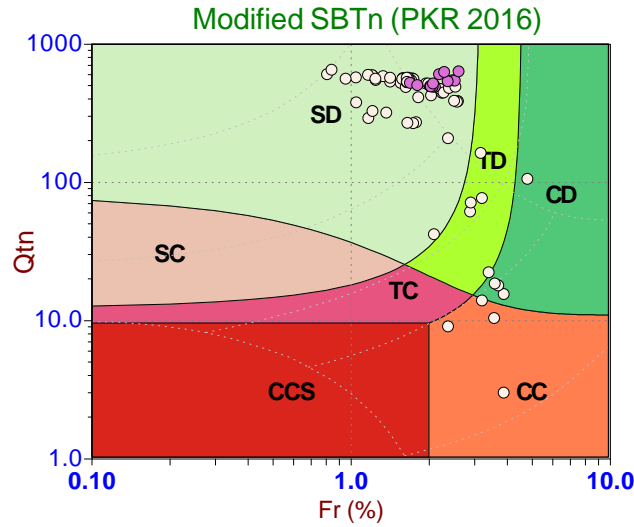
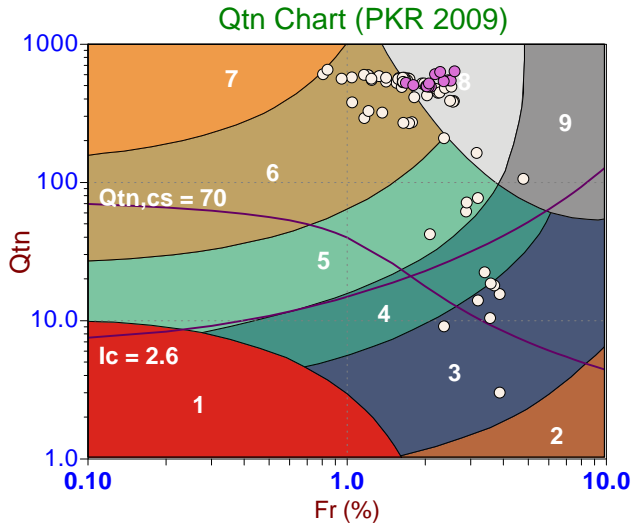
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 14:44  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-365A  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

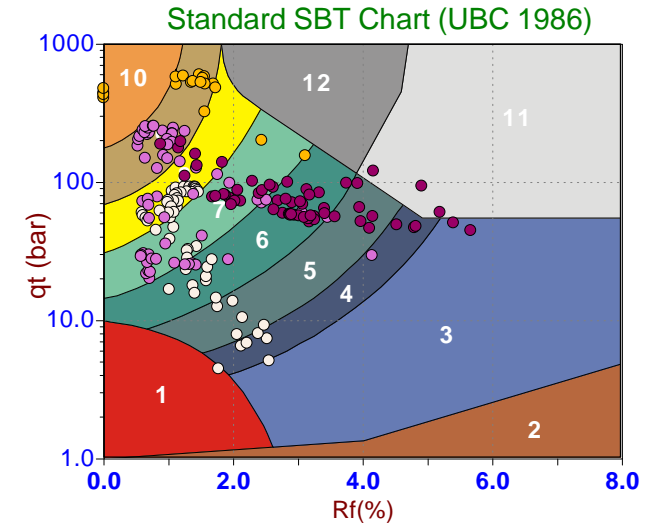
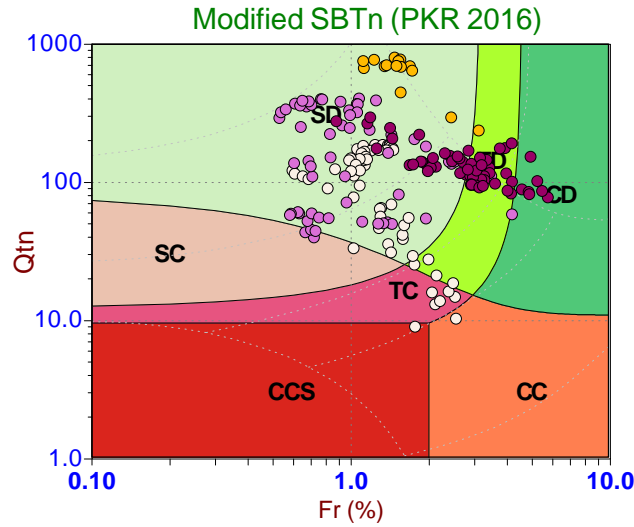
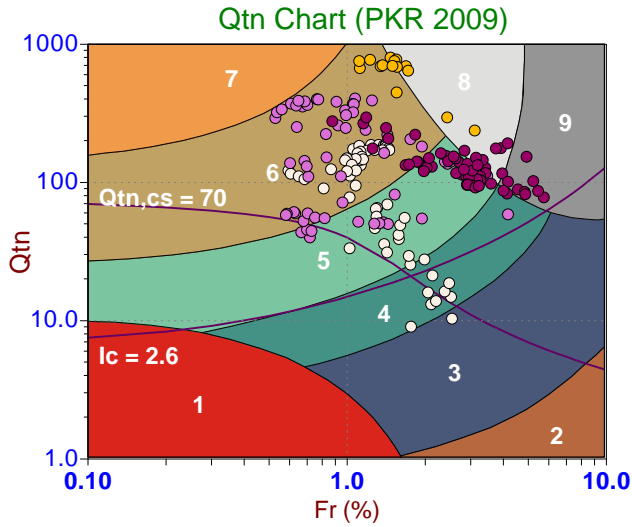
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 12:53  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-371  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

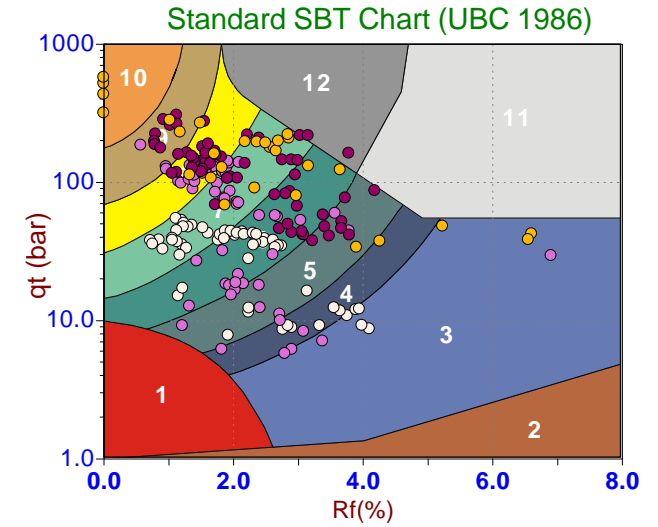
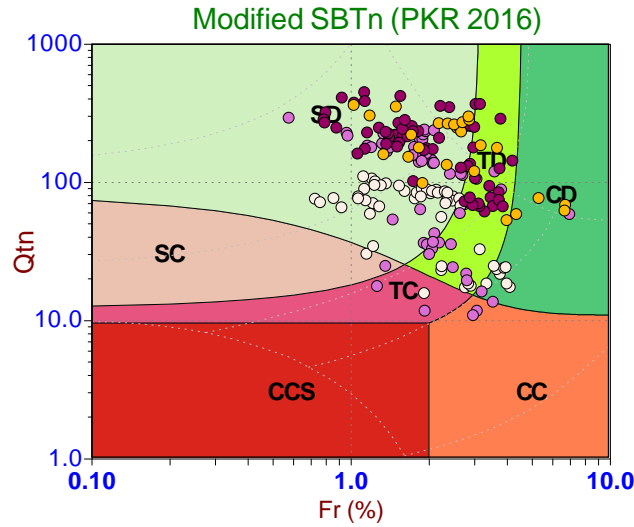
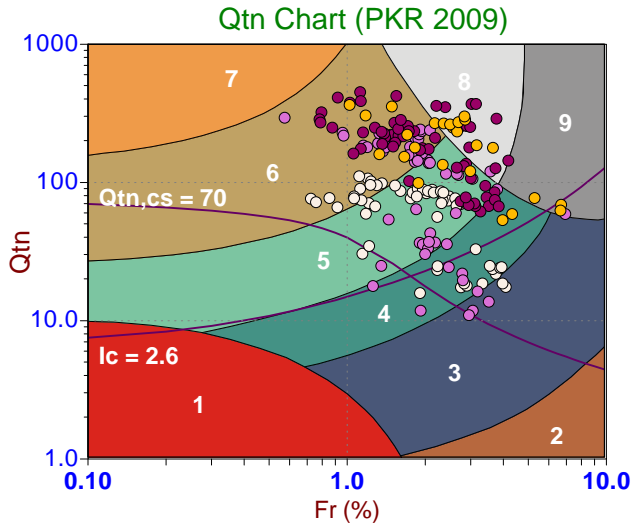
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 13:25  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-372  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

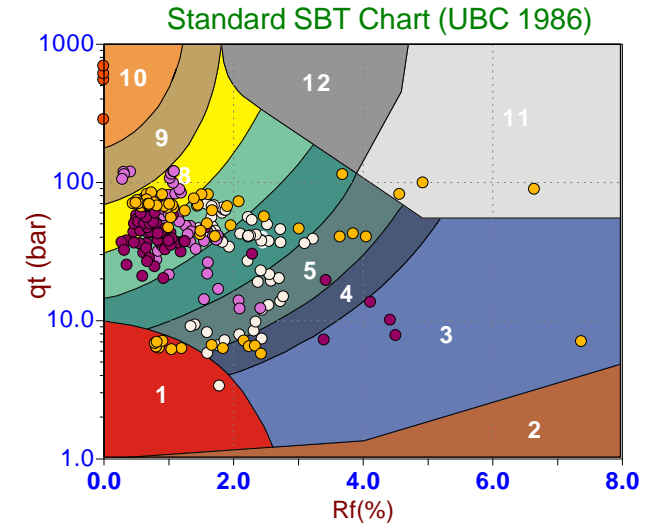
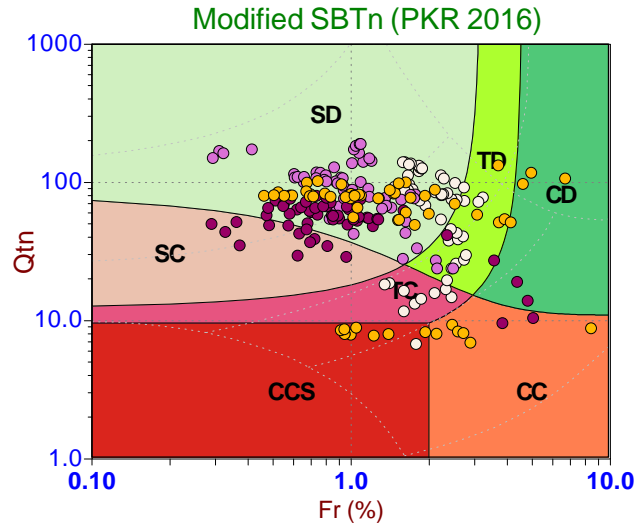
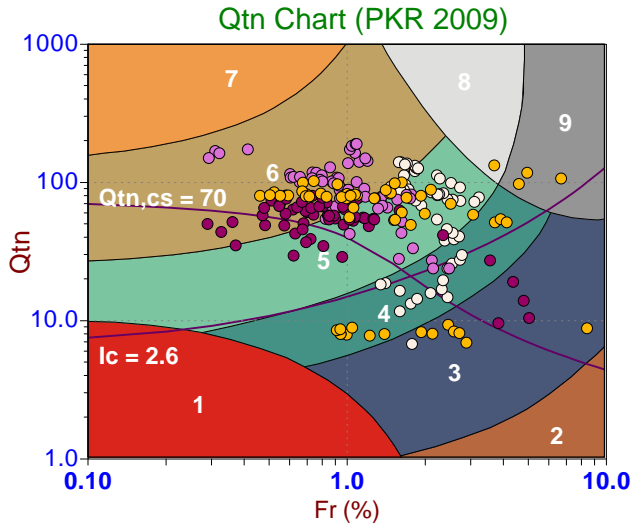
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 12:15  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-381  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

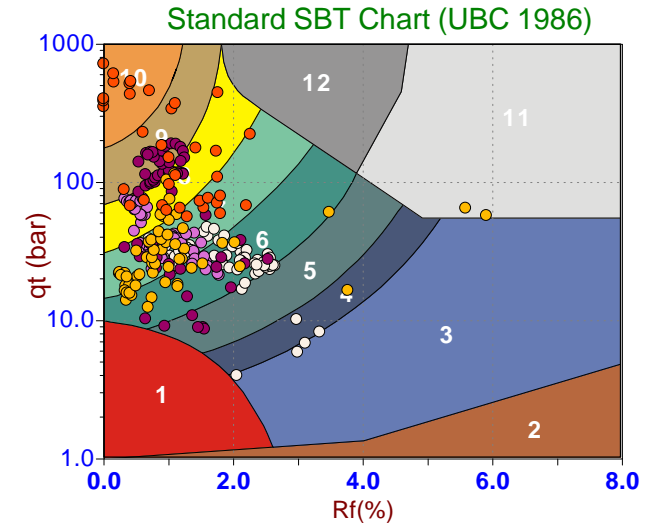
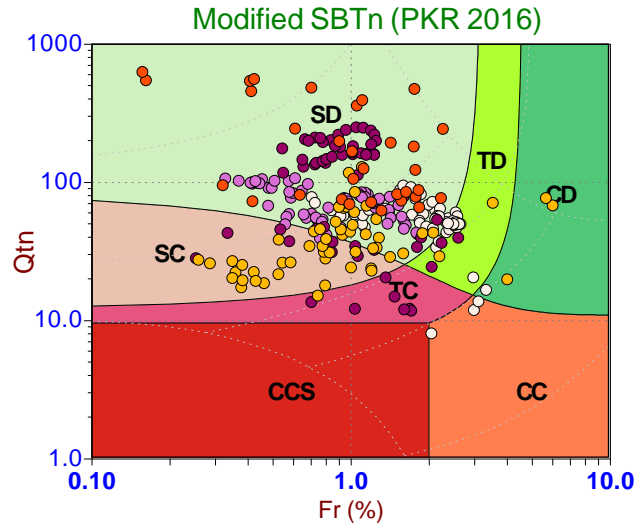
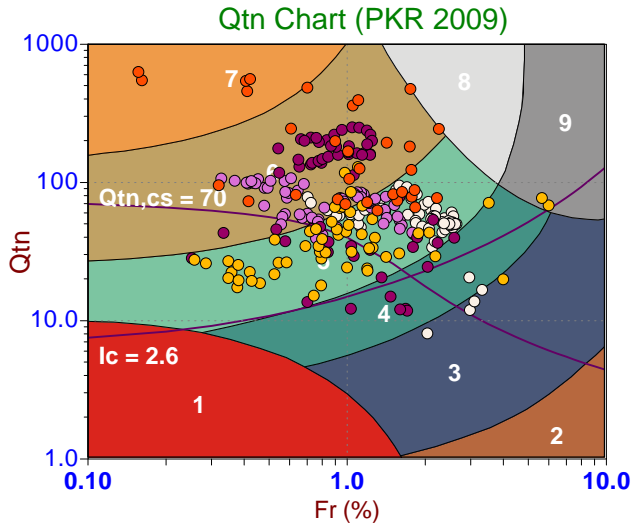
- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand



**CME Associates**

Job No: 23-53-26729  
Date: 2023-10-28 13:56  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-383  
Cone: 606:T1500F15U35



**Depth Ranges**

- >0.0 to 5.0 ft
- >5.0 to 10.0 ft
- >10.0 to 15.0 ft
- >15.0 to 20.0 ft
- >20.0 to 25.0 ft
- >25.0 to 30.0 ft
- >30.0 to 35.0 ft
- >35.0 to 40.0 ft
- >40.0 to 45.0 ft
- >45.0 to 50.0 ft
- >50.0 ft

**Legend**

- Sensitive, Fine Grained
- Organic Soils
- Clays
- Silt Mixtures
- Sand Mixtures
- Sands
- Gravelly Sand to Sand
- Stiff Sand to Clayey Sand
- Very Stiff Fine Grained

**Legend**

- CCS (Cont. sensitive clay like)
- CC (Cont. clay like)
- TC (Cont. transitional)
- SC (Cont. sand like)
- CD (Dil. clay like)
- TD (Dil. transitional)
- SD (Dil. sand like)

**Legend**

- Sensitive Fines
- Organic Soil
- Clay
- Silty Clay
- Clayey Silt
- Silt
- Sandy Silt
- Silty Sand/Sand
- Sand
- Gravelly Sand
- Stiff Fine Grained
- Cemented Sand

## **Pore Pressure Dissipation Summary and Pore Pressure Dissipation Plots**



**Job No:** 23-53-26729  
**Client:** CME Associates, Inc.  
**Project:** Proposed Micron Plant, Clay, NY  
**Start Date:** 23-Oct-2023  
**End Date:** 28-Oct-2023

### CPT<sub>u</sub> PORE PRESSURE DISSIPATION SUMMARY

Sounding ID	File Name	Cone Area (cm <sup>2</sup> )	Duration (s)	Test Depth (ft)	Estimated Equilibrium Pore Pressure U <sub>eq</sub> (ft)	Calculated Phreatic Surface (ft)	Refer to Notation
CPT23-B-112	23-53-26729_CPB-112	15	600	9.35	0.9	8.4	
CPT23-B-222	23-53-26729_CPB-222	15	300	10.74	8.5	2.2	
SCPT23-B-293	23-53-26729_SPB-293	15	415	5.00	1.6	3.4	
CPT23-B-312	23-53-26729_CPB-312	15	300	24.11	18.2	5.9	
CPT23-B-327	23-53-26729_CPB-327	15	180	18.37	15.5	2.8	
Totals	5 Dissipations		30 min				

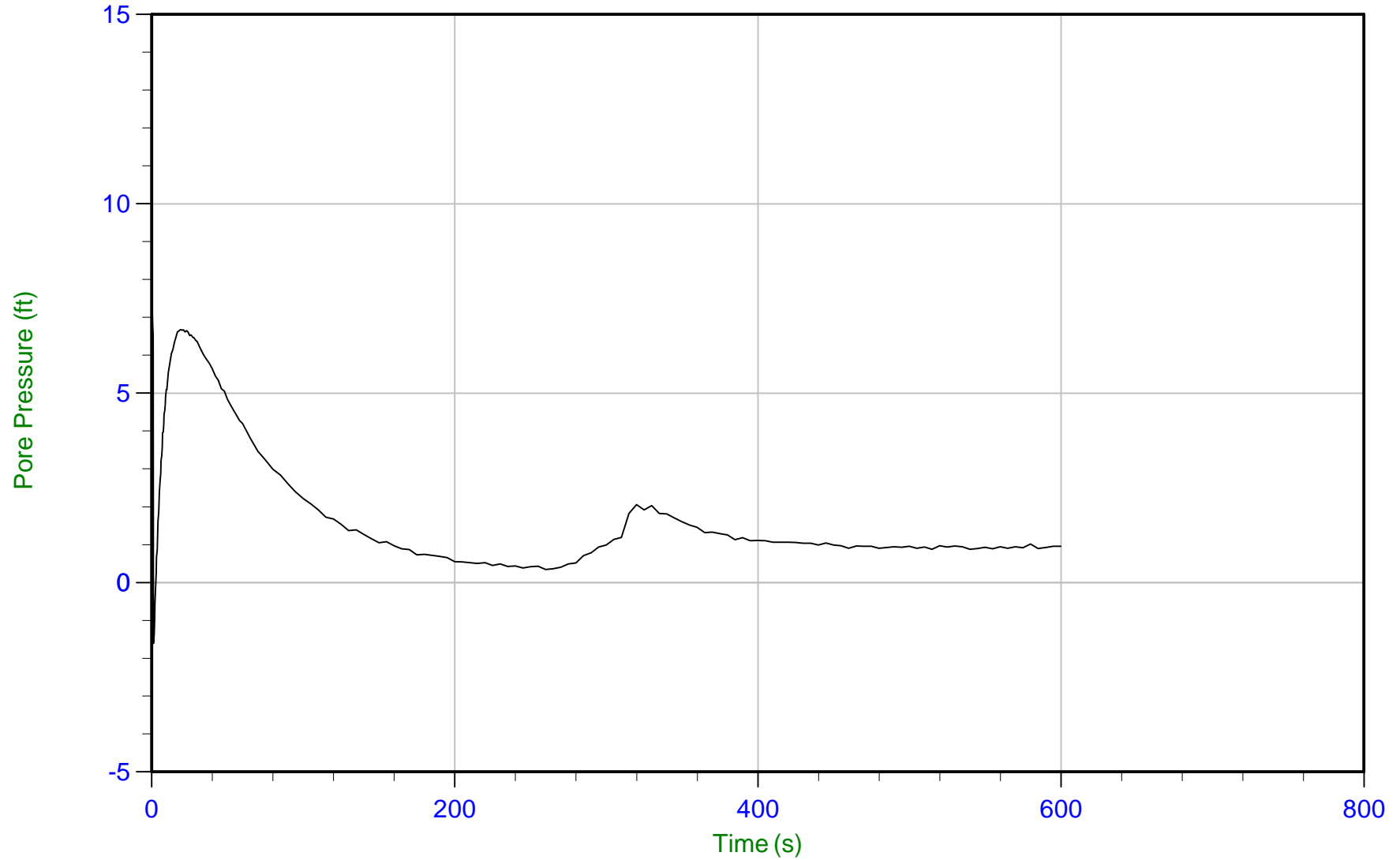




*CME Associates, Inc.*

Job No: 23-53-26729  
Date: 2023-10-24 10:50  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-112  
Cone: 604:T1500F15U35 Area=15 cm<sup>2</sup>



Trace Summary:

Filename: 23-53-26729\_CPB-112.PPF2  
Depth: 2.850 m / 9.350 ft  
Duration: 600.0 s

u Min: -1.6 ft  
u Max: 8.6 ft  
u Final: 1.0 ft

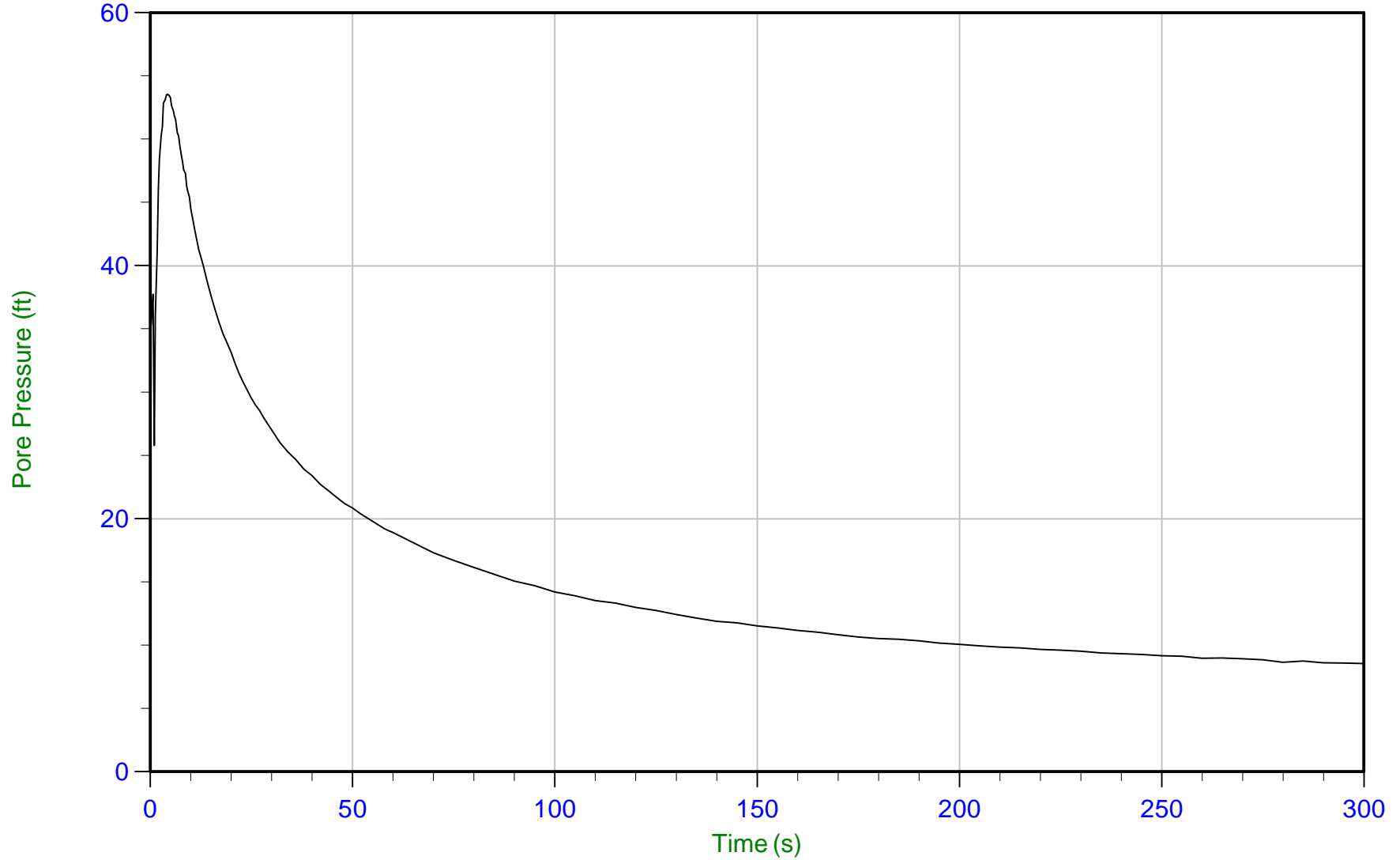
WT: 2.567 m / 8.422 ft  
Ueq: 0.9 ft



*CME Associates, Inc.*

Job No: 23-53-26729  
Date: 2023-10-27 11:16  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-222  
Cone: 606:T1500F15U35 Area=15 cm<sup>2</sup>



Trace Summary:

Filename: 23-53-26729\_CPB-222.PPF2  
Depth: 3.275 m / 10.745 ft  
Duration: 300.0 s

u Min: 8.6 ft  
u Max: 53.6 ft  
u Final: 8.6 ft

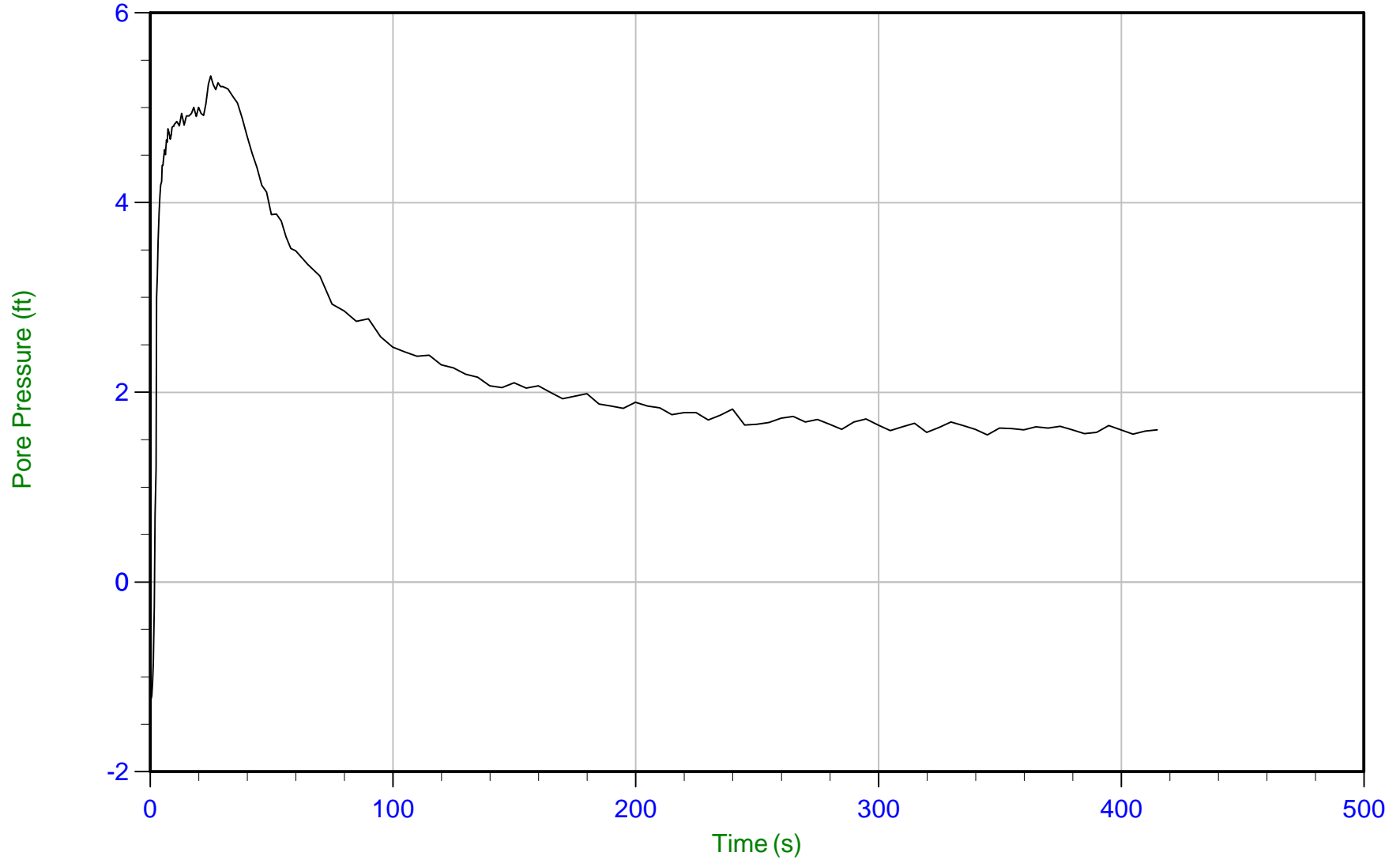
WT: 0.674 m / 2.211 ft  
Ueq: 8.5 ft



*CME Associates, Inc.*

Job No: 23-53-26729  
Date: 2023-10-27 08:32  
Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-293  
Cone: 606:T1500F15U35 Area=15 cm<sup>2</sup>



Trace Summary:

Filename: 23-53-26729\_SPB-293.PPF2  
Depth: 1.525 m / 5.003 ft  
Duration: 415.0 s

u Min: -1.2 ft  
u Max: 5.3 ft  
u Final: 1.6 ft

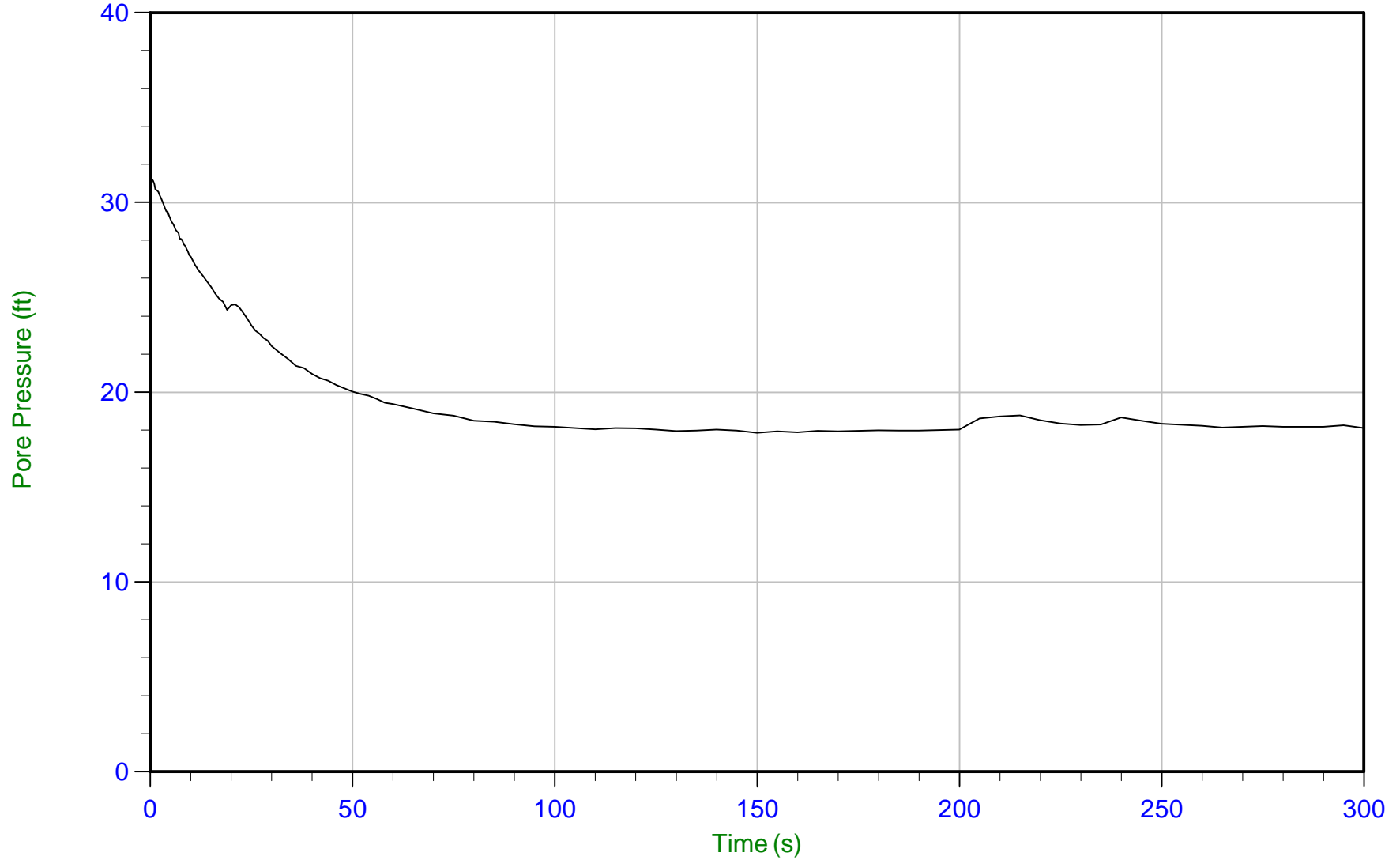
WT: 1.042 m / 3.419 ft  
Ueq: 1.6 ft



*CME Associates, Inc.*

Job No: 23-53-26729  
Date: 2023-10-26 08:26  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-312  
Cone: 604:T1500F15U35 Area=15 cm<sup>2</sup>



Trace Summary:

Filename: 23-53-26729\_CPB-312.PPF2  
Depth: 7.350 m / 24.114 ft  
Duration: 300.0 s

u Min: 17.9 ft  
u Max: 31.5 ft  
u Final: 18.1 ft

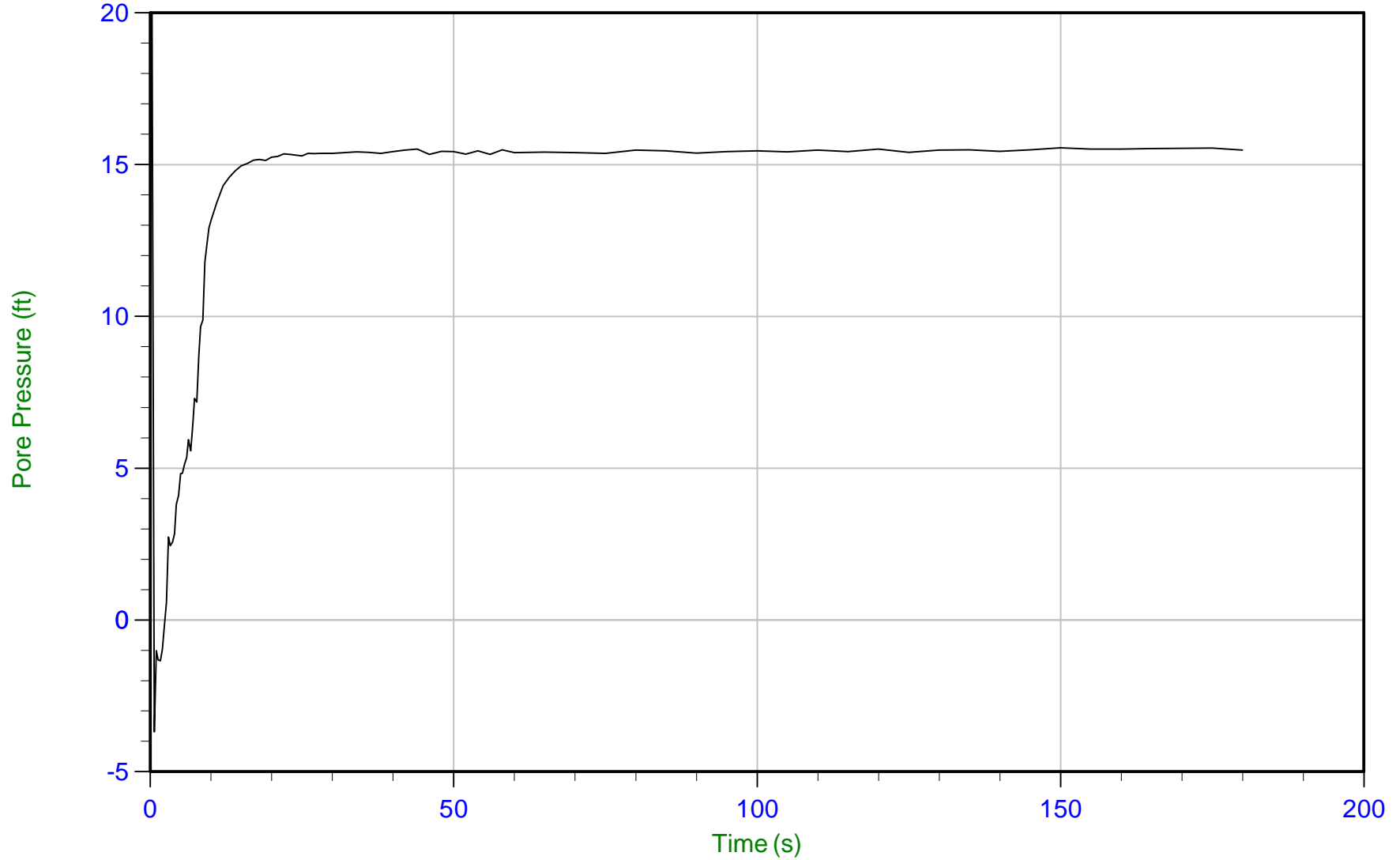
WT: 1.811 m / 5.942 ft  
Ueq: 18.2 ft



*CME Associates, Inc.*

Job No: 23-53-26729  
Date: 2023-10-28 10:06  
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-327  
Cone: 606:T1500F15U35 Area=15 cm<sup>2</sup>



Trace Summary:

Filename: 23-53-26729\_CPB-327.PPF2  
Depth: 5.600 m / 18.372 ft  
Duration: 180.0 s

u Min: -3.7 ft  
u Max: 20.0 ft  
u Final: 15.5 ft

WT: 0.863 m / 2.831 ft  
Ueq: 15.5 ft

## GENERAL INFORMATION & KEY TO TEST BORING LOGS

The **Subsurface Exploration – Test Boring Logs** produced by **CME Associates, Inc.** (CME) present observations and mechanical data collected by the CME Drill Crew while at the site, supplemented, at times, by classification of the materials removed from the borings determined through visual identification by technicians in the laboratory. It is cautioned that the materials removed from the borings represent only a fraction of the total volume of the deposits at the site and may not necessarily be representative of the subsurface conditions between adjacent borings or between the sampled intervals. The data presented on the Exploration Logs together with the recovered samples will provide a basis for evaluating the character of the subsurface conditions relative to the proposed construction. The evaluation must consider all the recorded details and their significance relative to each other. Often, analyses of standard boring data indicate the need for additional testing and sampling procedures to more accurately evaluate the subsurface conditions. Any evaluations of the contents of CME's report and the recovered samples must be performed by Licensed Professionals having experience in Soil Mechanics, Geological Sciences and Geotechnical Engineering. The information presented in this Key defines some of the methods, procedures and terms used on the CME Exploration Logs to describe the conditions encountered. Refer to the Log on page 4 for key number.

### Key No.

### Description

1. The figures in the **DEPTH SCALE** column define the vertical scale of the Boring Log.
2. The **SAMPLE NO.** is used for identification on the sample containers and in the Laboratory Test Report or Summary.
3. The **SAMPLE DEPTH** column gives the depth range from which a sample was recovered.
4. The **TYPE / SAMPLE RECOVERY** column is used to signify the various types of samples. "SS is Split Spoon, "U" is Undisturbed Tube, and "C" is Rock Core. For soil and rock samples, the recovered length of the sample is recorded in inches.
5. **BLOWS ON SAMPLER** – This column shows the results of the "Standard Penetration Test (SPT) ASTM D1586", recording the number of blows required to drive a 2-inch outside diameter (O.D.) split spoon sampler into the ground beneath the casing. The number of blows required for each six inches of penetration is recorded. The total number of blows required for the 6-inch to 18-inch interval is summarized in the **SPT "N"** column and represents the "Standard Penetration Number". The outside diameter of the sampler, the hammer weight and the length of drop are noted in the **Methods of Investigation** portion of the log. A "WH" or "WR" in this column indicates that the sample spoon advanced a 6-inch interval under the **Weight of Hammer + Rod** or **Weight of Rod**, respectively. If a rock core sample is taken, the core bit size designation is given here.
6. The **DEPTH OF CHANGE** column designates the depth (in feet) that the driller noted a compactness or stratum change. In soft materials or soil strata exhibiting a consistent relative density, it is difficult for the driller to determine the exact change from one stratum to the next. In addition, a grading or gradual change may exist. In such cases the depth noted is approximate or estimated only and may be represented by a dashed line. When continuous split spoon sampling is not employed, or an interval of several feet exists between samplings, the Depth of Change may not be indicated at all.
7. **VISUAL CLASSIFICATION OF MATERIAL** – Soil materials sampled and recovered are described by the Driller or Geotechnical Representative on the original field log. Notes of the Drillers observations are also placed in this column. Recovered samples may also be visually classified by a Geologist, Engineer, or Soil Technician. Visual soil classifications are made using a modified **Burmister System** as practiced by CME and as generally described in this Key and abbreviated on the Test Boring Log. This modified **Burmister System** is a type of visual-manual textural classification estimated by the Driller, Geologist, Engineer, or Technician on the basis of weight-fraction of the recovered material and estimated plasticity, among other characteristics. See Table 1 "**Classification of Materials**". The description of the relative compactness or consistency is based upon the standard penetration number as defined in Table 2. The description of the recovered sample moisture condition is described as dry, moist, wet, or saturated. Water used to advance the boring may affect the moisture content of the recovered sample. Special terms may be used to describe recovered materials in greater detail, such terms are listed in ASTM D653. When sampling gravelly soils with a standard two-inch O.D. Split Spoon, the true percentage of gravel is often not recovered due to the relatively small sampler diameter. The presence of boulders, cobbles, and large gravel is sometimes, but not necessarily, detected by observation of the casing advancement and sampler blows and/or through the "action" of the drill rig, sampler and/or casing as reported by the Driller.

The description of **Rock** is based upon the recovered rock core. Terms frequently used in the description are included in Tables 3, 4 and 5. The length of core run is defined as length of penetration between retrievals of the core barrel from the bore hole, expressed in inches. The core recovery expresses the length of core recovered from the core barrel per core run, in percent. The size core barrel used is noted in Column 5. An "N" size core, being larger in diameter than "A" size core, often produces better recovery, and is frequently utilized where accurate information regarding the geologic conditions and engineering properties is needed. An estimate of in-situ rock quality is provided by a modified core recovery ratio known as the "**Rock Quality Designation**" (**RQD**). This ratio is determined by considering only pieces of core that are at least 4 inches long and are hard and sound. Breaks obviously caused by drilling are ignored. The percentage ratio between the total length of such core recovered and the length of core drilled on a given run is the **RQD**. Table 4 indicates in-situ rock quality as related to the **RQD**.

8. The SPT “N” or RQD is given in this column as applicable to the specific sample taken. In Very Compact coarse-grained soils and in Hard fine-grained soils the N-value may be indicated as 50+ or 100+. This typically means that the blow count was achieved prior to driving the sampler the entire 6-inch interval or the sampler refused further penetration. For an “N” size rock core, the RQD is reported here, expressed in percent (%).
9. **GROUNDWATER OBSERVATIONS** and timing noted by the Drill Crew are shown in this section. It is important to realize that the reliability of the water level observations depend upon the soil type (e.g. water does not readily stabilize in a hole through fine grained soils), and that drill water used to advance the boring may have influenced the observations. Groundwater levels typically fluctuate seasonally so those noted on the log are only representative of that exhibited during the period of time noted on the log. One or more perched or trapped water levels may exist in the ground seasonally. All the available resources and data should be evaluated. If definite conclusions cannot be made, it is often prudent to examine the conditions more thoroughly through test pit excavations or through groundwater observation well installations.
10. **METHODS of INVESTIGATION** provides pertinent information regarding the identity of the Drill Crew members, inspector (if any), drill rig make and model, drill rig mount vehicle, casing and type of advancement, soil and rock sampling tools and appurtenances used in the installation of the Test Boring.

<b>TABLE 1 - CLASSIFICATION OF MATERIALS</b>	
<b>GROUP</b>	<b>COARSE GRAINED SOILS TEXTURAL SIZES</b>
BOULDERS	larger than 12" diameter
COBBLES	12" diameter to 3" sieve
GRAVEL	3" - coarse - 1" - medium - 1/2" - fine - #4 sieve
SAND	#4 - coarse - #10 - medium - #40 - fine - #200 sieve
<b>GROUP</b>	<b>FINE GRAINED SOILS SIZE (PLASTICITY*)</b>
SILT	#200 sieve (0.074mm) to 0.005mm size (see below *)
CLAY	0.005mm size to 0.001 mm size (see below *)
<b>GROUP</b>	<b>ORGANIC SOILS, PEAT, MUCK, MARL</b>
ORGANIC	Based on smell, visual-manual and laboratory testing

<b>ABBREVIATIONS</b>	<b>TERM</b>	<b>ESTIMATED PERCENT OF TOTAL SAMPLE BY WEIGHT</b>
<b>f</b> - fine	and	35 to 50%
<b>m</b> - medium	some	20 to 35%
<b>c</b> - coarse	little	10 to 20%
	trace	0 to 10%

<b>*PLASTICITY DESCRIPTIONS and INDICATOR FIELD TESTS</b>			
<b>TERM</b>	<b>PLASTICITY INDEX</b>	<b>DRY STRENGTH TEST</b>	
		<b>INDICATION</b>	<b>FIELD TEST RESULT</b>
non-plastic	0 - 3	Very low	falls apart easily
slightly plastic	4 - 15	Slight	easily crushed by fingers
plastic	15 - 30	Medium	difficult to crush
highly plastic	31 or more	High	impossible to crush with fingers
Other Field Tests include: Dilatancy, Thread and Shine Testing			

**TABLE 2 - DESCRIPTION OF SOIL COMPACTNESS OR CONSISTENCY based on SPT "N"\***

Primary Soil Type	Descriptive Term of Compactness	Range of Standard Penetration Resistance (N)
<b>COARSE GRAINED SOILS</b>  (More than half of Material is larger than No. 200 sieve size)	Very Loose	less than 4 blows per foot
	Loose	4 to 10
	Medium Compact	10 to 30
	Compact	30 to 50
	Very Compact	Greater than 50
<b>FINE GRAINED SOILS</b>  (More than half of material is smaller than No. 200 sieve size)	<b>Descriptive Term of Consistency</b>	<b>Range of Standard Penetration Resistance (N)</b>
	Very Soft	less than 2 blows per foot
	Soft	2 to 4
	Medium Stiff	4 to 8
	Stiff	8 to 15
	Very Stiff	15 to 30
	Hard	Greater than 30

\*The number of blows of 140-pound weight falling 30 inches to drive a 2-inch O.D., 1-3/8 inch I.D. sampler 12 inches is defined as the Standard Penetration Resistance, designated "N".

**TABLE 3 - ROCK CLASSIFICATION TERMS**

Rock Classification Terms	Field Test or Meaning of Term
<b>Hardness</b>	Soft Scatched by fingernail. Crumbles under firm blows with a geologic pick.
	Medium Soft Shallow indentations (1 to 3 mm) can be made by firm blows of a geologic pick. Can be peeled with a pocketknife with difficulty.
	Medium Hard Scatched distinctly by penknife or steel nail. Can't be peeled or scraped with knife.
	Hard Scatched with difficulty by penknife or steel nail. Requires more than one blow with a geologic hammer to break it
	Very Hard Cannot be scratched by penknife or steel nail. Breaks only by repeated heavy blows with a geologic hammer.
<b>Bedding</b>  (Divisional planes and/or surfaces separating it from layers above and below)	Thinly Laminated less than 1/8 <sup>th</sup> inch
	Laminated 1/8 <sup>th</sup> to 1 inch
	Thinly Bedded 1 inch to 4 inches
	Medium Bedded 4 inches to 12 inches
	Thickly Bedded 12 inches to 48 inches
	Massive greater than 48 inches


**TABLE 4  
Relation of Rock Quality Designation (RQD) and in-situ Rock Quality**

RQD %	Rock Quality Term Used
90 to 100	Excellent
75 to 90	Good
50 to 75	Fair
25 to 50	Poor
0 to 25	Very Poor



**TABLE 5 – BEDROCK WEATHERING CLASSIFICATION**

Classification	Diagnostic Features
Fresh	No visible sign of decomposition or discoloration. Rings under hammer impact.
Slightly Weathered	Slight discoloration inwards from open fractures, otherwise similar to Fresh.
Moderately Weathered	Discoloration throughout. Strength somewhat less than fresh rock but cores cannot be broken by hand or scraped with knife. Texture observed.
Highly Weathered	Most minerals somewhat decomposed. Specimens can be broken by hand with effort or shaved with knife. Core stones present in rock mass. Texture becoming indistinct but fabric preserved.
Completely Weathered	Minerals decomposed to soil, but fabric and structure preserved (e.g. Saprolite). Specimens easily crumbled or penetrated.
Residual Soil	Advanced state of decomposition resulting in plastic soils. Rock fabric and structure completely destroyed. Large volume change.

 <b>CME</b> Associates, Inc.	6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522	<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b>	<b>B-2</b>				
				<b>Page No.</b>	1 of 1				
			<b>Report No.</b>						
	<b>Project Name:</b>		<b>Date Started</b>						
<b>Client:</b>		<b>Date Finished</b>							
<b>Location:</b>		<b>Surface Elev.</b>							
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	<b>10</b>	<b>Casing:</b>	<b>10</b>	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b>		<b>Casing Hammer:</b>			While Drilling	<b>9</b>	<b>9</b>		
<b>Inspector:</b>		<b>Other:</b>			Before Casing Removed				
<b>Drill Rig:</b>		<b>Soil Sampler:</b>			After Casing Removed				
<b>Type:</b>		<b>Hammer Wt:</b>			After Casing Removed				
<b>Rod Size:</b>		<b>Hammer Fall:</b>							
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>		<b>7</b>	<b>8</b>

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



6035 Corporate Drive  
East Syracuse, New York 13057  
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(315) 701-0526 (Fax)

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June 20, 2023

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Re: Geotechnical Data Report – Revision 1  
Micron Campus  
Clay, New York  
CME Report No. 28062B-01-0523R1  
Page 1 of 3

## 1.0 INTRODUCTION

CME Associates, Inc. (CME) was retained by Ramboll (Client) to provide subsurface exploration and geotechnical services for the subject project. CME conducted a limited subsurface exploration at the subject project site, as part of the Phase 1 Exploration Program.

The Scope of Basic Services and this report have been provided pursuant to CME Proposal/Agreement No.: 05.7126, Addendum 3, dated 04/07/2023, authorized by Client via a Purchase Order (Ramboll PO # 1950006347, dated 04/14/2023). This report provides a summary of exploration activities conducted at the subject project site.

## 2.0 EXPLORATION METHODOLOGY

### 2.1 Exploration Layout and Utility Clearance

The exploration locations were selected by the Client and staked by Thew Associates (Thew). Following the field stakeout, CME contacted UDig NY to clear public utilities at the exploration locations. Private utilities at the exploration locations were cleared by Thew. No utility conflicts were noted at the exploration locations.

The attached *CME Exploration Location Plan* depicts the approximate locations of the explorations. Elevation at grade at the exploration locations, along with Northing and Easting coordinates, was provided by Thew (See Table 1, attached).

### 2.2 Test Borings

A total of 60 Test Borings were advanced using either a Central Mine Equipment Model 550X (ATV-mounted) or Model 55 (track-mounted) rotary exploration drill rig, equipped with 3- $\frac{1}{4}$ " I.D. hollow stem augers. Soil sampling was conducted using a 140-pound hammer dropping through a distance of 30 inches to drive a 2" O.D. split barrel sampler in general conformance with ASTM Standard Practice D1586. Rock coring was performed in general conformance with ASTM Standard Practice D2113. Undisturbed Shelby Tube sampling was conducted in general conformance with ASTM D1587.

***A New York State Certified Woman-Owned Business Enterprise (WBE)***

All Borings were backfilled with auger cuttings to nearly match the existing grade.

Soil samples were logged and visually classified in the field by the driller or an on-site Geotechnical Engineer or Geologist, and a portion of each soil sample was placed and sealed in a glass jar. Bedrock cores were placed and secured in a wooden box. The soil and rock classifications were later reviewed by a CME Engineer in CME's East Syracuse AASHTO resource<sup>1</sup> Accredited Laboratory. The visual soil and rock classifications were made using a modified Burmister Classification System, as practiced by CME and as generally described in the attached document entitled *General Information & Key to the Test Boring Logs*. The *Test Boring Logs* are attached. *Bedrock Core Photographs* are also attached to this report.

### 2.3 Infiltration Testing

A total of 3 Infiltration Tests (labeled IT-1 to IT-3) were performed. The tests were performed in general conformance with the requirements of the New York State Stormwater Management Design Manual, Appendix D: Infiltration Testing. The test details and results are given in the attached *Infiltration Test Reports*.

### 2.4 MASW Survey

An MASW Survey was conducted along four survey lines. CME Engineer Chen Liu, Ph.D., EIT, or Astitwa Sharma, EIT, and CME Field Technician Sahin Yumusak conducted this survey over a two-day period. Please refer to the attached *Geophysical Investigation Report* for details and the survey results.

### 2.5 Groundwater Level Monitoring Well

Three Groundwater Monitoring Wells, labeled W-1, W-2 and W-3, were installed near Boreholes, B-129, B-24, and B-227, respectively. Please refer to the attached *Groundwater Monitoring Well Logs*, labeled W-1 to W-3, for details of the well installation. Periodic monitoring of the groundwater level in said wells will be performed by CME. Please refer to the attached *Groundwater Level Monitoring Table* for observed groundwater levels thus far.

### 2.6 Laboratory Testing

Laboratory Testing on selected soil samples was conducted in CME's East Syracuse Laboratory. Please refer to the attached *Laboratory Test Summary Report* for the ASTM Test Methods and test results.

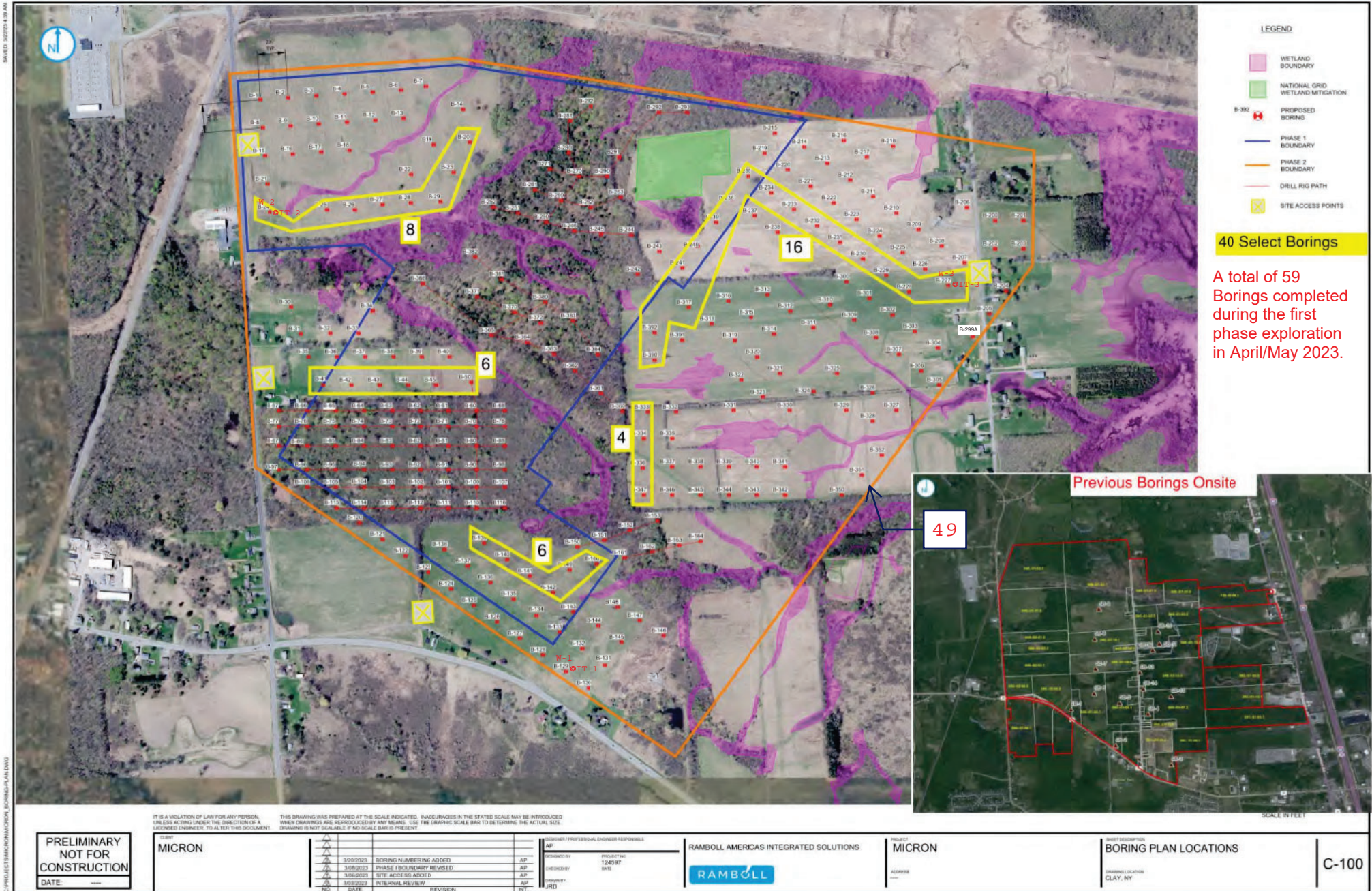
## 3.0 STANDARD OF CARE

CME endeavored to conduct services identified herein in a manner consistent with that level of care and skill ordinarily exercised by members of the industry currently practicing in the same locality and under similar conditions as this project. No warranty, either expressed or implied, is made or intended by CME's proposal, contract, and written and oral reports, all of which warranties are hereby expressly disclaimed. CME shall not be responsible for the acts or omissions of the Client, its contractors, agents, and consultants. CME may rely upon information supplied by Client, its contractors, agents, and consultants or information available from generally accepted reputable sources without independent verification, and CME assumes no responsibility for the accuracy thereof.

---

<sup>1</sup> **AASHTO re:source** – American Association of State Highway & Transportation Officials (AASHTO) Materials Reference Laboratory, a Federal Agency having jurisdiction to assess laboratory competency according to the Standards of the United States of America. CME East Syracuse accreditation includes testing of Portland Cement Concrete, Aggregate and Soil Materials. [www.AASHTOresource.org](http://www.AASHTOresource.org).





# EXPLORATION LOCATION PLAN 05-17-23

Point ID	Latitude	Longitude	Northing	Easting	Elevation
B-14	43.19581	-76.1611	1164726	932791.1	394
B-19	43.19513	-76.1619	1164477	932583.5	391.8
B-20	43.19518	-76.161	1164494	932838.9	392.4
B-22	43.19456	-76.1625	1164266	932420.1	391.8
B-23	43.19459	-76.1614	1164281	932723.3	387.3
B-24	43.19384	-76.1663	1163999	931420	394.6
B-25	43.19386	-76.1648	1164010	931827.8	393
B-26	43.19386	-76.164	1164010	932027.5	392.1
B-27	43.19397	-76.1633	1164052	932218.3	390
B-28	43.19403	-76.1626	1164075	932415.6	390.5
B-29	43.19416	-76.1618	1164121	932620.7	389.7
B-41	43.19048	-76.1649	1162775	931799.5	398.8
B-42	43.19047	-76.1641	1162775	931999.6	398.8
B-43	43.19047	-76.1634	1162775	932199.7	396.3
B-44	43.19047	-76.1626	1162775	932399.7	397.9
B-45	43.19047	-76.1619	1162775	932599.5	399.9
B-50	43.19052	-76.161	1162795	932847.7	396.6
B-123	43.18683	-76.1621	1161450	932542.7	418.3
B-124	43.18651	-76.1615	1161334	932705.1	420.8
B-125	43.18618	-76.1609	1161216	932867.1	422.1
B-126	43.18586	-76.1603	1161099	933029.3	421.6
B-127	43.18554	-76.1597	1160982	933191.5	420.6
B-128	43.18521	-76.1591	1160865	933353.9	419.5
B-129	43.18489	-76.1585	1160748	933516.1	418.8
B-130	43.18457	-76.1579	1160631	933678.1	418.8
B-131	43.18501	-76.1574	1160793	933795.2	409.4
B-132	43.18533	-76.1581	1160910	933632.8	410.3
B-133	43.18566	-76.1587	1161027	933470.7	410.3
B-134	43.18598	-76.1593	1161145	933308.4	411.5
B-135	43.1863	-76.1599	1161261	933146.2	412.5
B-136	43.18663	-76.1605	1161378	932984	413
B-137	43.18695	-76.1611	1161495	932821.9	413.5
B-138	43.18727	-76.1617	1161612	932659.7	412.4
B-139	43.18739	-76.1606	1161658	932938.8	407.3
B-140	43.18707	-76.16	1161541	933101.2	407.2
B-141	43.18675	-76.1594	1161424	933263.4	407.4
B-142	43.18642	-76.1588	1161307	933425.4	407.3
B-143	43.18601	-76.1583	1161156	933552.5	405.7
B-144	43.18578	-76.1576	1161073	933749.8	406.4
B-145	43.18545	-76.157	1160955	933911.7	406.5
B-148	43.18608	-76.1571	1161185	933892.8	404.3
B-149	43.18687	-76.1584	1161469	933542.5	406.1
B-160	43.18698	-76.1576	1161510	933738.3	405.1
B-207	43.19279	-76.1478	1163642	936342.3	389.9
B-208	43.19311	-76.1484	1163759	936180.1	390.8
B-209	43.19344	-76.1491	1163876	936017.8	391

Point ID	Latitude	Longitude	Northing	Easting	Elevation
B-210	43.19376	-76.1496	1163993	935855.6	386.3
B-211	43.19407	-76.1503	1164106	935687.4	385.9
B-212	43.19441	-76.1509	1164227	935531.1	386.8
B-213	43.19473	-76.1515	1164344	935369	387.3
B-214	43.19505	-76.1521	1164461	935206.7	383.5
B-215	43.19533	-76.1529	1164559	934998	382.3
B-216	43.19517	-76.151	1164506	935485.7	385.8
B-217	43.19485	-76.1504	1164389	935648.1	387.8
B-218	43.19506	-76.1497	1164465	935832.9	386.4
B-219	43.19493	-76.1531	1164416	934927.3	385.9
B-220	43.19461	-76.1525	1164299	935089.6	387.4
B-221	43.19429	-76.1519	1164181	935251.9	389.8
B-222	43.19396	-76.1513	1164065	935414.1	389.7
B-223	43.19364	-76.1507	1163948	935576.4	386.9
B-224	43.19332	-76.1501	1163831	935738.7	389.5
B-225	43.19299	-76.1495	1163714	935900.8	391.5
B-226	43.19267	-76.1489	1163597	936062.9	390.1
B-227	43.19235	-76.1483	1163480	936225.2	389.3
B-229	43.19255	-76.1499	1163551	935783.8	391.9
B-230	43.19287	-76.1505	1163668	935621.5	391
B-231	43.1932	-76.1511	1163785	935459.3	388.2
B-232	43.19352	-76.1518	1163902	935297.1	387.8
B-233	43.19384	-76.1524	1164019	935134.9	389.9
B-234	43.19417	-76.153	1164136	934972.7	389.9
B-235	43.19449	-76.1536	1164253	934810.5	390.4
B-236	43.19405	-76.154	1164091	934693.5	394
B-239	43.19361	-76.1544	1163930	934600.3	393
B-240	43.19308	-76.1549	1163739	934457.1	392.8
B-241	43.19272	-76.1553	1163604	934342.7	393.5
B-317	43.19195	-76.1552	1163325	934387.9	392.9
B-333	43.18993	-76.1563	1162586	934098.8	394.9
B-334	43.18941	-76.1564	1162398	934071.1	397.8
B-336	43.18884	-76.1564	1162189	934062.2	403.9
B-337	43.18886	-76.1556	1162197	934270.9	403.5
B-338	43.18885	-76.1549	1162197	934470.9	394.4
B-339	43.18885	-76.1541	1162197	934670.9	391.9
B-340	43.18878	-76.1533	1162172	934882.8	391.4
B-341	43.18886	-76.1527	1162201	935059.4	391
B-342	43.1883	-76.1526	1161997	935071	391.5
B-343	43.1883	-76.1534	1161997	934870.9	393.1
B-344	43.1883	-76.1541	1161997	934671	395.8
B-345	43.1883	-76.1549	1161997	934471	406.6
B-346	43.18831	-76.1556	1161998	934271.1	403.9
B-347	43.18831	-76.1564	1161998	934071.1	401.7
B-390	43.19093	-76.1561	1162952	934146.7	392.8
B-392	43.19146	-76.1561	1163147	934146.1	393.5

Point ID	Latitude	Longitude	Northing	Easting	Elevation
IT-1	43.18489	-76.1585	1160748	933516.1	418.8
W-1	43.18489	-76.1585	1160748	933516.1	418.8
IT-2	43.19384	-76.1663	1163999	931425	394.6
W-2	43.19385	-76.1663	1164004	931420	394.6
IT-3	43.19235	-76.1483	1163480	936230.3	389.3
W-3	43.19236	-76.1483	1163485	936225.2	389.3
B-1	43.19603	-76.1665	1164796	931352	392.7
B-2	43.19606	-76.1658	1164809	931551.5	392.8
B-3	43.19609	-76.165	1164822	931751.1	393
B-4	43.19613	-76.1643	1164835	931950.8	393.2
B-5	43.19616	-76.1635	1164849	932150.3	392.7
B-6	43.19619	-76.1628	1164862	932349.9	391.2
B-7	43.19628	-76.1622	1164895	932518.1	391.2
B-8	43.19548	-76.1665	1164596	931369	393.7
B-9	43.19551	-76.1657	1164610	931568.6	392.4
B-10	43.19555	-76.165	1164623	931768.2	393.1
B-11	43.19558	-76.1642	1164636	931967.8	392.3
B-12	43.19561	-76.1635	1164649	932167.2	391.5
B-13	43.19565	-76.1627	1164663	932366.8	391.1
B-15	43.19493	-76.1664	1164397	931386.1	394
B-16	43.19497	-76.1657	1164410	931585.5	393.9
B-17	43.195	-76.1649	1164424	931785.1	393.3
B-18	43.19497	-76.1643	1164413	931955.2	391.9
B-21	43.19438	-76.1663	1164198	931403.1	393.7
B-35	43.19103	-76.1653	1162975	931696.1	397.4
B-36	43.19102	-76.1645	1162975	931896	394.7
B-37	43.19102	-76.1638	1162975	932096.1	394.3
B-38	43.19102	-76.163	1162975	932296	397.2
B-39	43.19102	-76.1623	1162975	932496	397
B-40	43.19101	-76.1615	1162975	932696.2	396.5
B-121	43.18748	-76.1633	1161684	932218	414.8
B-122	43.18715	-76.1627	1161567	932380.2	418.8
B-206	43.19386	-76.1478	1164032	936358.1	390.7
B-305	43.19042	-76.1485	1162776	936163.8	388.1
B-306	43.19069	-76.149	1162876	936036.6	388.3
B-307	43.19102	-76.1496	1162993	935874.3	388.7
B-303	43.19146	-76.1492	1163155	935991.3	390.8
B-304	43.19114	-76.1486	1163038	936153.5	390.5
B-350	43.18829	-76.1511	1161997	935470.9	391.4
B-351	43.18868	-76.1506	1162139	935612.5	390.1
B-352	43.18901	-76.1501	1162261	935756.5	388.7
B-299	43.19145	-76.1475	1163154	936425.5	387.7



**Groundwater Level Monitoring Table**  
**Micron Campus, Clay, New York**

Reading Date	Observed Groundwater Elevation and Depth Below Grade (ft)					
	W-1 (Grade Elevation 418.8 ft)		W-2 (Grade Elevation 394.6 ft)		W-3 (Grade Elevation 389.3 ft)	
	Elevation	Depth Below Grade	Elevation	Depth Below Grade	Elevation	Depth Below Grade
4/19/2023	418.7	0.1	-	-	385.5	3.8
4/21/2023	-	-	393.8	0.8	-	-
5/16/2023	416.1	2.7	392.5	2.1	385.7	3.6
5/17/2023	416.0	2.8	391.8	2.8	386.4	2.9
6/12/2023	414.6	4.2	386.8	7.8	385.3	4.0

# MASW Survey Report

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## Micron Campus Clay, New York

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**Prepared For: (Client)**

**Ramboll**

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**CME Report No.: 28062N-01-0523**  
**May 23, 2023**

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## **MASW Survey Report Micron Campus Clay, New York**

### **1.0 INTRODUCTION**

CME Associates, Inc. (CME) conducted a limited Geophysical Investigation consisting of a surficial seismic survey to determine vertical seismic shear wave velocity profiles at the subject project site. This report presents the shear wave velocity ( $V_s$ ) measurements obtained from the surficial seismic survey.

The fieldwork and this report have been provided pursuant to the execution of CME Proposal/Agreement No.: 05.7126, Amendment 3, dated 04/07/2023, by Ramboll (Client), via a Purchase Order (Ramboll P.O.#1950006347, dated 04/14/2023).

### **2.0 MASW SURVEY**

A Surface-wave Analysis was conducted for indirect measurement of seismic shear wave velocity ( $V_s$ ), using MASW (Multichannel Analysis of Surface Waves) and MAM (Microtremor Array Measurement) methods. These survey methods are less time consuming and more cost effective, compared to the direct measurement methods such as Crosshole and Downhole Seismic Testing, and these practices are widely utilized and accepted in the geotechnical profession.

#### **2.1 Theory and Application**

Recently, surface wave methods have become the seismic techniques most often used to estimate the  $V_s$  structure of soil because of their non-invasive nature and greater efficiency in data acquisition and processing (Park and Miller, 2004). Surface waves are a form of mechanical waves that propagate while attenuating (breaking down) along the interface of strata. The signal-to-noise ratio for surface waves is stronger than that of body waves (primary and secondary waves) (Park, Miller and Xia, 1999). Love waves and Rayleigh waves are formed by surface waves; however, the Surface-wave Analysis method focuses on Rayleigh waves.

Particle motion of Rayleigh waves in a homogeneous medium moving from left to right is elliptical in a counterclockwise (retrograde) direction along the free surface (Xia, et al., 2004). As Rayleigh waves propagate through the ground, wave frequency (or wavelength) is altered by vertical variation in  $V_s$ . Variation in wave frequency has a direct relationship on wave velocity. The velocity at which the phase of a certain wave frequency travels is called phase velocity. A property known as dispersion develops by propagation of phase velocities (Park, Miller and Xia, 1999).

Longer wavelengths (lower frequencies) are more sensitive to elastic properties of deeper layers, therefore have greater phase velocity and penetrate further underground. Shorter wavelengths are more sensitive to physical properties of near-surface layers (Xia, Miller and Park, 1999). Within the range of frequencies recorded from the survey, the strongest energy waveforms will have the highest signal-to-noise ratio, termed the Fundamental Mode (M0). Any higher modes or body waves within recorded data are considered noise. By recording M0 Rayleigh waves propagating horizontally and directly from the seismic source to receiver, the dispersive properties directly beneath the source and receiver spread can be measured and usually represented by a curve (called Dispersion Curve) depicting variation of phase velocities with frequency (Park and Miller, 2004). This curve is then used to back-calculate the vertical variation of Vs and construct a one-dimensional (1D) Vs profile. An overview of procedure for data collection and processing of M0 Rayleigh waves is depicted below in Figure 1.

Determined Vs of waves are used to interpret the structure of soil layers because of the close relationship Vs has to shear strength and stiffness of soil (Park et al., 2007). An increase or decrease in Vs demonstrates a greater or reduced shear strength and stiffness of soil layer.

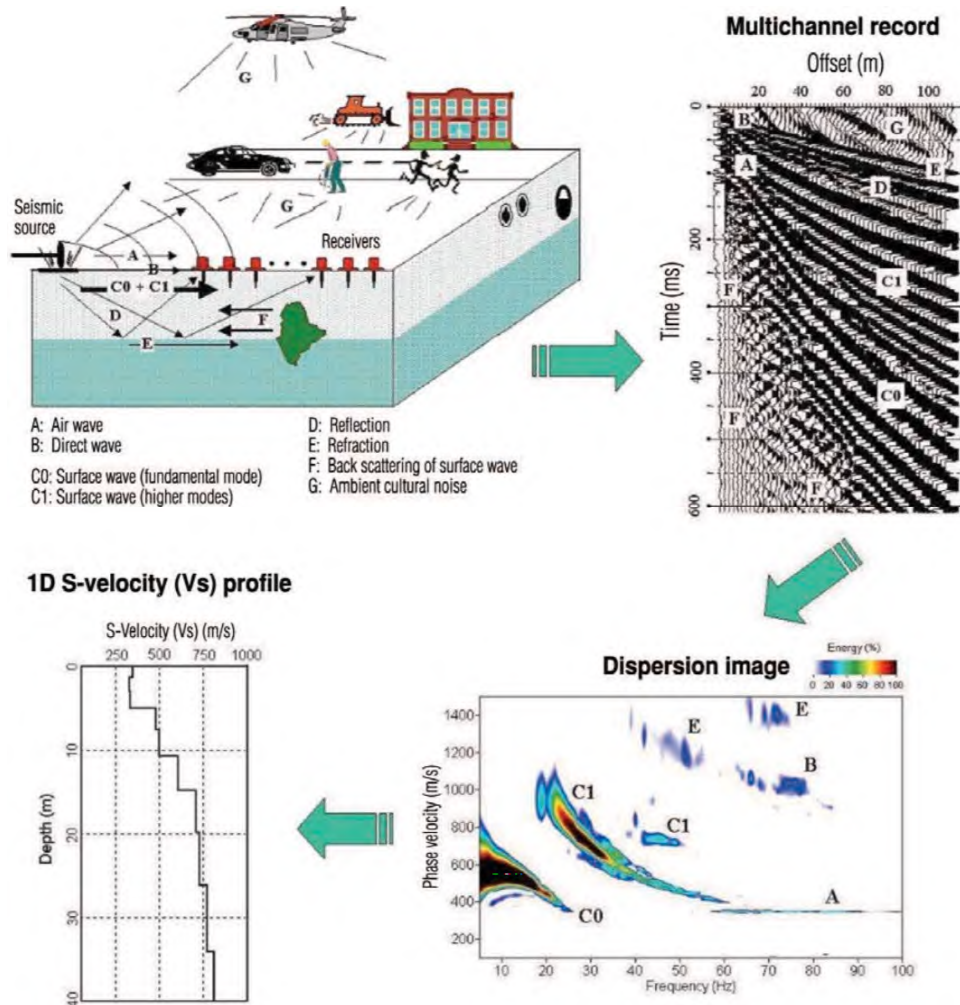


Figure 1. Overall procedure for data collection and processing.

## 2.2 Equipment

The data collection for the surface wave analysis was achieved by utilizing an underground imaging tool (Geometrics ES-3000 Seismograph) and data acquisition software (Seismodule Controller). As illustrated in Figure 2, attached to the seismograph is a channel cable, power cable, Ethernet cord, and time break (trigger) cable. The channel cable has 24 connectors used to connect receivers along a spread. The receivers are geophones coupled to the ground within a spread configuration at desired intervals of spacing. The power cable is equipped to a battery to power the seismograph.

An Ethernet cord is used to connect the seismograph to a computer for data collection via the Seismodule Controller software. A time-break cable is attached to the upper handle of a sledgehammer, which sends a signal to the seismograph at hammer strike, initiating a recording. A metal strike plate is placed at a fixed off-set distance away from the receiver spread, amplifying dynamic energy when struck by the hammer. Once the hammer strikes the plate, vibrational impulses felt in the geophones are transported via the channel cable, acquired by the seismograph, and recorded on the computer.

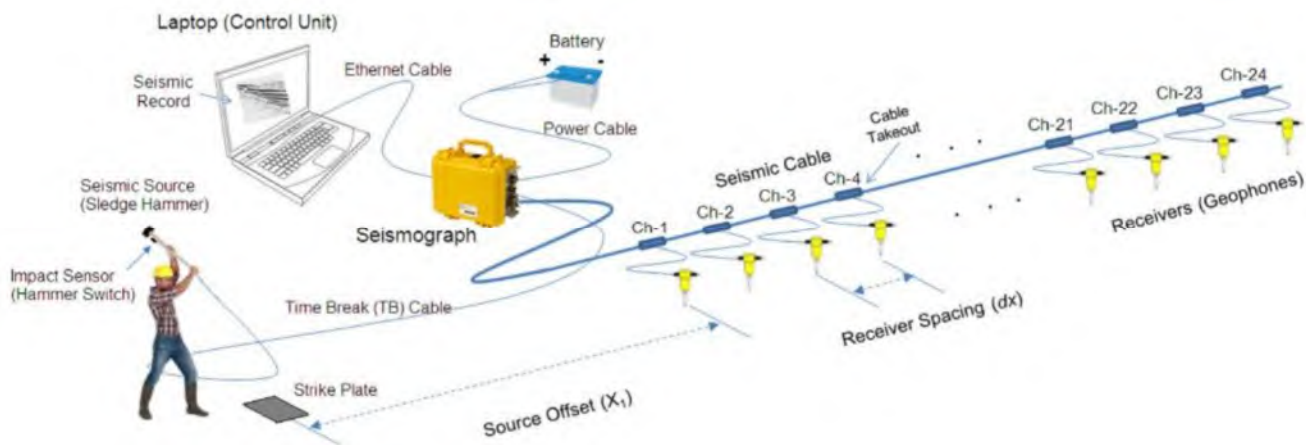


Figure 2. Typical field configuration with an active source survey.

## 2.3 Methodology

There are two methods used for Surface-wave Analysis; active (MASW) and passive (MAM) source surveying. Both techniques are employed along the same spread configuration, but with different data quality for underlying strata. To perform an active survey, a dynamic source (such as a sledgehammer) provides surface wave data. To perform a passive survey, noise from ambient energy sources (such as traffic or wind) provides surface wave data.

As explained in the Geometrics *SeisImager/SW Manual*, the investigation depth for active surveys is approximately half the spread length, and that for passive surveys is approximately equal to the spread length. Lower frequency Rayleigh waves can penetrate deeper and propagate faster than higher frequencies, providing deeper Vs soil surveys. Higher frequencies will provide higher resolution of data at shallower depths. An active survey emits and records higher frequency surface waves compared to passive surveys. When active and passive source files are combined by vertically stacking both sets of image data (as shown in Figure 3), two trends are merged naturally to make one continuous trend over a broader bandwidth (Park, et al. 2007). Therefore, a combination of both techniques will optimize resolution throughout the profile.

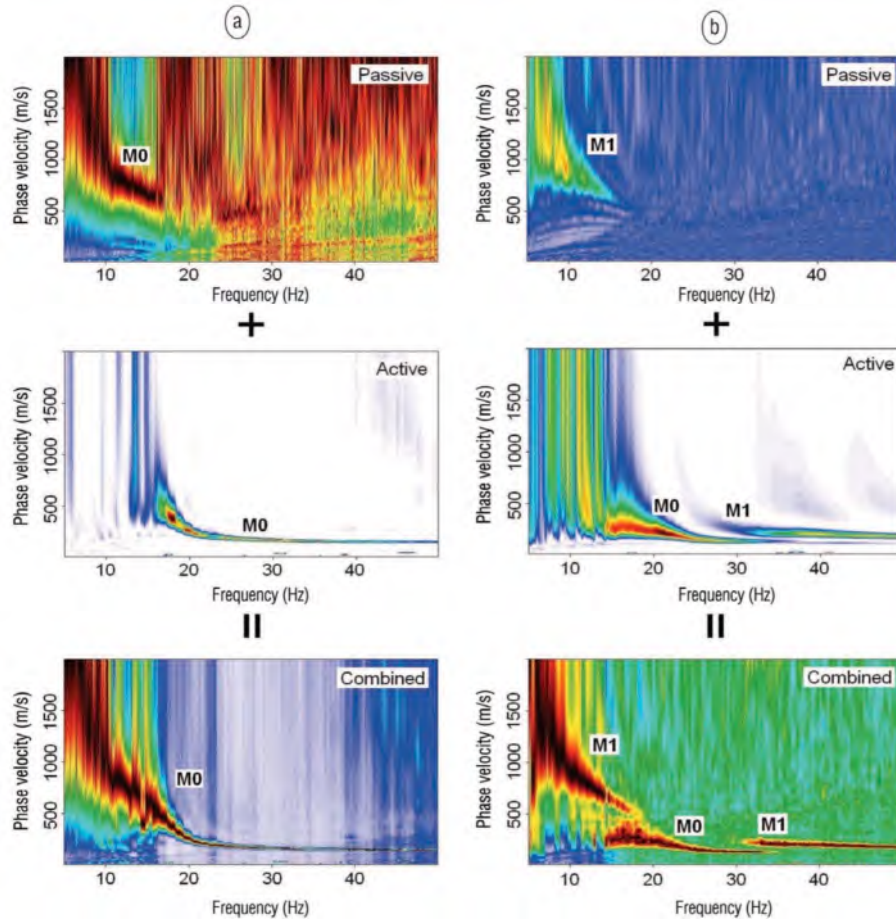


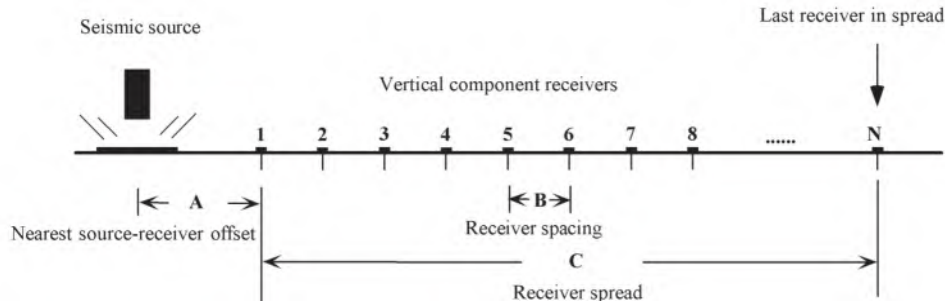
Figure 3. Dispersion images from passive and active sources are combined to enlarge dispersion bandwidth.

## 2.4 Data Acquisition and Processing

To acquire and process data after equipment setup completion, a *Seismodule Controller* and *SeisImager/SW* software are used. Procedures for data acquisition are followed as outlined in the *Geometrics SeisImager/SW Manual*.

Parameters set in the *Seismodule Controller* for active and passive surveys are listed below. A few of these parameters are illustrated in Figure 4.

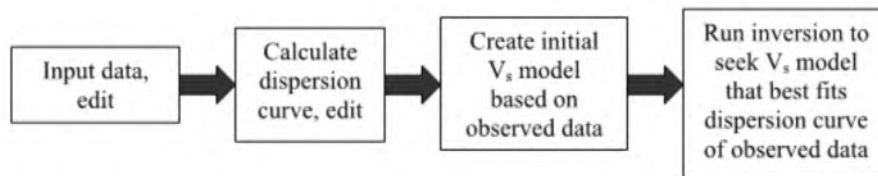
- **Spread configuration** – Layout of receivers
- **Receiver spread** – Distance between first and last receiver
- **Receiver spacing** – Distance interval between each receiver
- **Receiver type** – Method of collecting seismic energy
- **Receiver count** – Amount of receivers
- **Source-receiver offset** – Distance between source and first receiver
- **Seismic source** – Method used for dynamic energy
- **Sample interval** – Time between recorded samples
- **Record length/count** – Allotted time for data acquisition (and number of files with MAM)
- **Stacking** – Way to increase signal-to-noise ratio (with MASW) by layering “shots” (field records).



**Figure 4. Three acquisition parameters for active source field configuration**

Once parameters are set and first shot ran (for the MASW), a shot record displays all seismic waves in a tapered layout, indicative of dispersion (Figure 1). Further processing is performed within *SeisImager/SW* software using *Pickwin* and *WaveEq* modules (Figure 5). Within *Pickwin* the shot record waveform is converted into a phase velocity vs. frequency plot (Figure 1). In *WaveEq* the Dispersion Curve is displayed and optimized by removing any interference of noise (Figure 6a). Based on the Dispersion Curve, an initial model of  $V_s$  is back-calculated. Given the initial model, a best fit line using an iterative inversion with the Least Square Method is calculated to generate the Final one-dimensional (1D)  $V_s$  profile (Figure 6b) (Xia, Miller and Park, 1999).

Green points defining the dark grey shaded section of the Figure 6b represent the best indicator of the reliable depth range of penetration calculated using one-third wavelength approximation. Geophone reception of frequency vibrations will reach a depth limit when attenuation (loss of energy) is too large. Survey results for depths below the dark grey shaded section generally tend to yield poor accuracy and may not represent a true representation of the  $V_s$  profile. Such depth ranges will be indicated by light grey shaded sections to call attention to use caution when interpreting the survey results. For a Combined  $V_s$  profile, respective Dispersion Curves for active and passive surveys are appended within *WaveEq* and processed.



**Figure 5. General processing flow using SeisImager/SW software.**



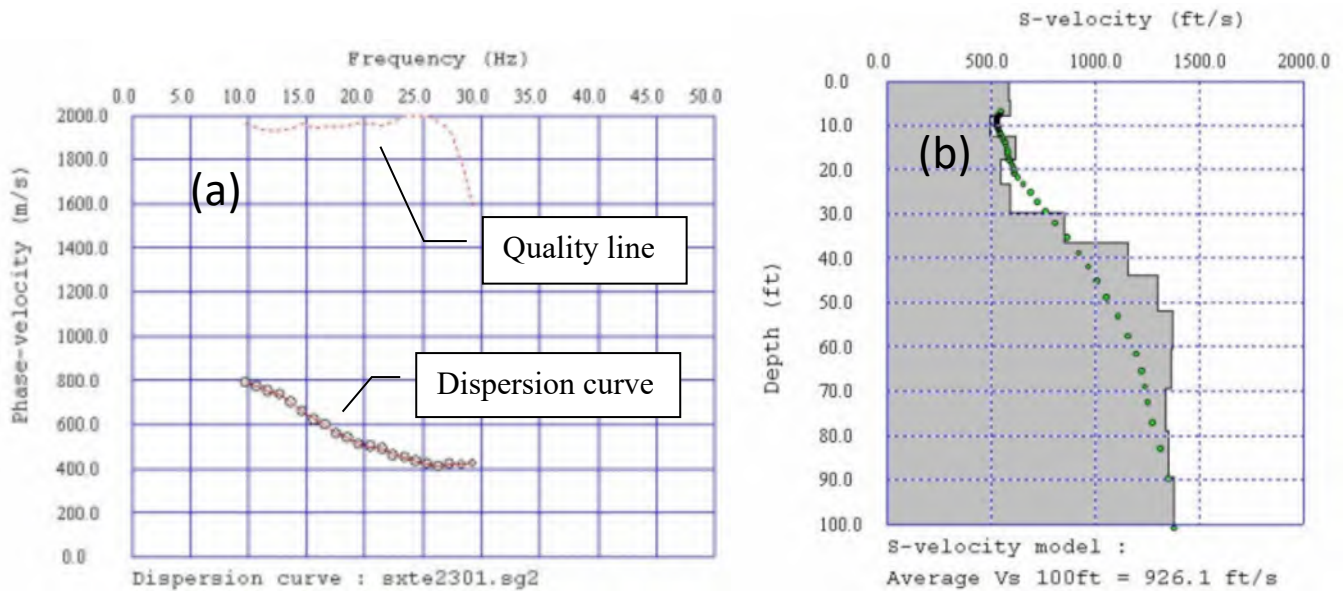


Figure 6. (a) Example of Dispersion Curve and Quality Line. Quality Line is used to assess Dispersion Curve quality based on signal amplitude. (b) Example of Final 1D Vs profile. Green points represent one-third wavelength approximation.

## 2.5 Results

The field data collection for the Surface-wave Analysis was conducted at the subject project site on 04/21/2023 and 04/26/2023. A total of 4 survey lines (Line 1 to Line 4) were surveyed using both active (MASW) and passive (MAM) sources. Figures 7 through 10 show aerial views of the approximate location of the survey lines. Site pictures for Line 1 to Line 4 are shown in Figures 12 to 15.

Data from this survey was recorded using 24 vertical-component 4.5 Hz geophones coupled to the ground using spikes. For each survey, the geophones were equally spaced 5 feet apart along a 115-foot linear spread. For active source surveys, an 8-pound sledgehammer with a shot on a strike plate, placed at an offset of 23 feet, provided dynamic energy. Multiple shots were made at each survey line to stack data. The record length was 1.0 second with a 0.5-millisecond sample interval. For passive source surveys, a minimum of 20 records of ambient energy were compiled for each survey line. The record length was 8 seconds with a 2.0-millisecond sample interval.

The raw data collected in the field was processed in the CME office, by the undersigned Engineer. Dispersion Curves for active and passive source surveys at each survey line were combined to create a Final 1D Vs Profile.

Please note, the data processing for the 3 lines surveyed on 04/21/2023 revealed unreliable/unrealistic results, possibly caused by soft and wet ground conditions noted at the energy source location, as a result of rain earlier that week. Therefore, the Dispersion Curve and 1D Vs Profile for these 3 survey lines are not presented in this report.

The grade surface at the energy source for the survey along Line 4, conducted on 04/26/2023, was noted to be relatively dry and firm. The Dispersion Curve and 1D Vs Profile for Line 4 is presented in Figure 11. The survey at this location yielded better and more reliable data compared to that of the 04/21/2023 survey. However, this data is insufficient to characterize the entire site, relative to its shear wave velocity profile. CME recommends that additional MASW surveys and/or Vs profiling via CPT (Cone Penetration Test) be conducted as part of the Phase 2 exploration.

CME will utilize the shear wave velocity profile given in Figure 11, and the additional shear wave velocity profiles to be obtained during the Phase 2 exploration to determine Site Class, in accordance with Section 20.4.1 of ASCE 7.



Figure 7. Approximate Location of Surface-wave Analysis Survey Line 1



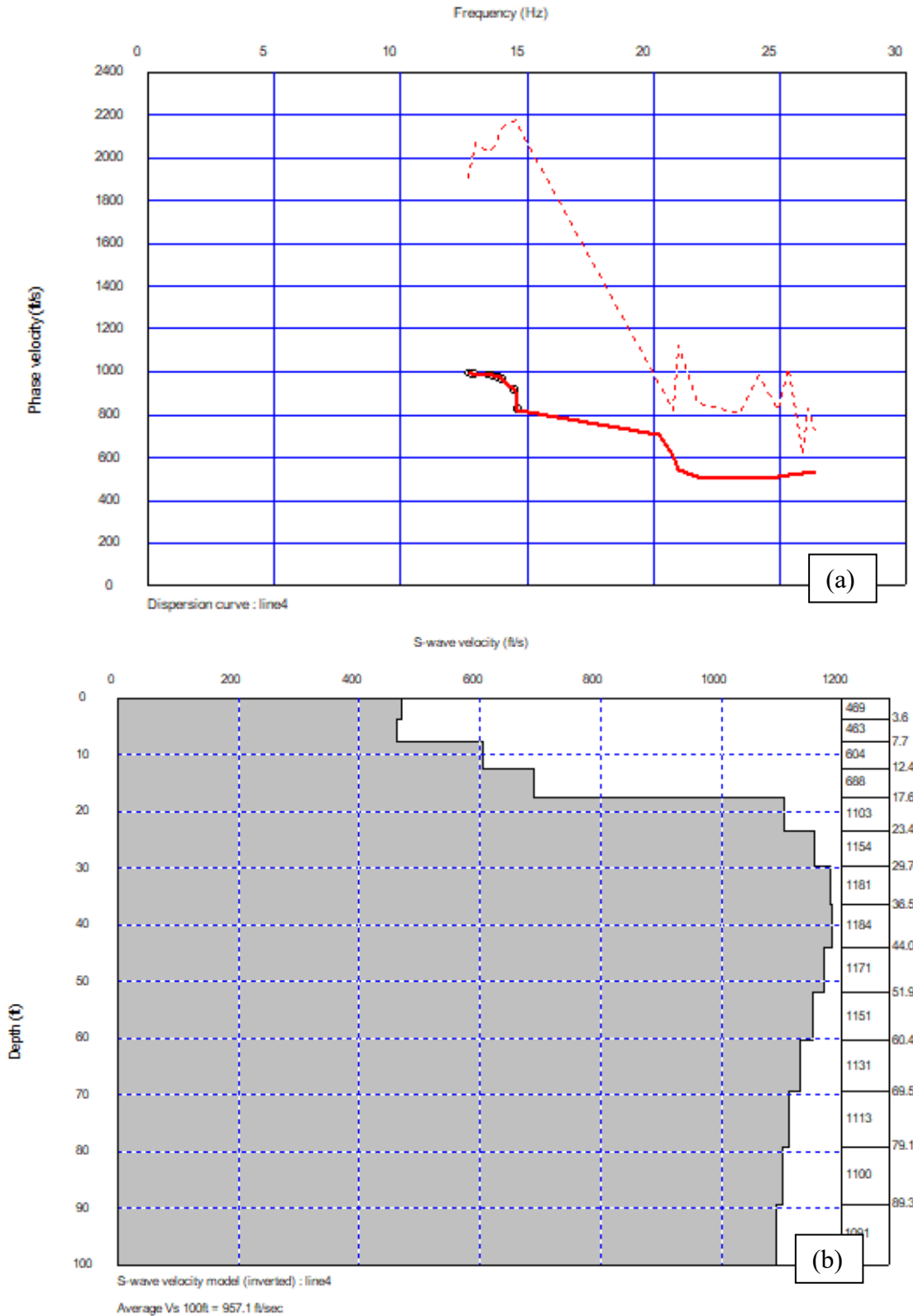
Figure 8. Approximate Location of Surface-wave Analysis Survey Line 2



**Figure 9. Approximate Location of Surface-wave Analysis Survey Line 3**



**Figure 10. Approximate Location of Surface-wave Analysis Survey Line 4**



**Figure 11. Survey Line 4: (a) Dispersion Curve (b) 1D Vs Profile.**

Please note, as explained in Report Section 2.4, dark grey shaded section of the above Vs Profile represents the best indicator of the reliable depth range of wave penetration for the model. The light grey shaded sections (if any) represent ranges of depth where results are generally less accurate and/or unreliable, and thus, caution shall be exercised when interpreting the survey results.



Figure 12: Survey Location and Spread Configurations, Line 1



Figure 13: Survey Location and Spread Configurations, Line 2



3

Figure 14: Survey Location and Spread Configurations, Line 3



Figure 15: Survey Location and Spread Configurations, Line 4

### 3.0 CLOSING COMMENTS

The interpretation presented in this report is based on observed geophysical responses obtained during the test procedure and data processing.

We have endeavored to conduct these services in a manner consistent with the level of care and skill ordinarily exercised by members of the geotechnical engineering profession, practicing contemporaneously under similar conditions in the locality of the project. No other representation, express or implied is made. Under no circumstances is any warranty, express or implied, made in connection with the providing of geotechnical engineering services.



If you have any questions regarding the information presented in this report, please contact our office.

Respectfully Submitted,  
**CME Associates, Inc.**

Reviewed By,  
**CME Associates, Inc.**

A handwritten signature in blue ink, appearing to read "Anas N. Anasthas".

Chen Liu, Ph.D., EIT  
Geotechnical Engineer

Anas N. Anasthas, P.E.  
Senior Geotechnical Engineer

#### References:

- Park, C., Miller, R. and Xia, J., 1999. Multichannel Analysis of Surface waves. Available at:  
< <ftp://geom.geometrics.com/pub/seismic/Literature/SurfaceWaves/KGS/S-TR284-G64n31999ParkMASW.pdf> >  
[Accessed 24 September 2018].
- Park, C. and Miller, R., 2004. MASW to Map Shear-Wave Velocity of Soil. Available at:  
< [http://www.kgs.ku.edu/Geophysics/OFR/2004/OFR04\\_30/ofr04\\_30\\_text.pdf](http://www.kgs.ku.edu/Geophysics/OFR/2004/OFR04_30/ofr04_30_text.pdf) >  
[Accessed 30 September 2018].
- Park, C., Miller, R., Xia, J. and Ivanov, J., 2007. Multichannel Analysis of Surface Waves (MASW) – Active and Passive Methods. Available at:  
< [ftp://geom.geometrics.com/pub/seismic/Literature/SurfaceWaves/KGS/TLE26n12007\\_Park-Miller-Xia-Ivanov.pdf](ftp://geom.geometrics.com/pub/seismic/Literature/SurfaceWaves/KGS/TLE26n12007_Park-Miller-Xia-Ivanov.pdf) >  
[Accessed 28 September 2018].
- Xia, J., Miller, R. and Park, C., 1999. Estimation of Near-Surface Shear Wave Velocity by Inversion of Rayleigh Waves. Available at:  
< <ftp://geom.geometrics.com/pub/seismic/Literature/SurfaceWaves/KGS/S-TR283-G64n31999XiaMASW.pdf> >  
[Accessed 25 September 2018].
- Xia, J., Miller, R., Park, C. and Ivanov, J., 2004. Utilization of High Frequency Rayleigh Waves in Near-Surface Geophysics. Available at:  
< [ftp://geom.geometrics.com/pub/seismic/Literature/SurfaceWaves/KGS/TLE23n82004\\_Xia-Miller-Park-Ivanov.pdf](ftp://geom.geometrics.com/pub/seismic/Literature/SurfaceWaves/KGS/TLE23n82004_Xia-Miller-Park-Ivanov.pdf) >  
[Accessed 27 September 2018].

**INFILTRATION TEST REPORT**



**Test ID: IT-1**

Project:	Micron Campus Clay, NY	CME Report No.:	28062B-01-0523R1
		Test Date:	05/17/23
Client:	Ramboll	Test Location:	See Exploration Location Plan
		Technician:	S.Yumusak

**Test Preparation and Dimensions**

Casing Installed in:     Test Pit     Borehole  
 Casing Diameter and Type:    4 inch I.D. HDPE

A Existing Grade Elevation (ft): ..... 418.8  
 B Casing Stickup Length Above Grade (ft): ..... 2.8  
 C Top of Casing Elevation (ft): ..... (A+B)= 421.6  
 D Depth to Bottom of Test Hole, Below Top of Casing (ft): ..... 6.5  
 E Bottom of Test Hole Elevation: ..... (C-D)= 415.1

Burmister Classification of Soil at Bottom of Hole:    Brown SILT and cmf SAND, some CLAY  
 Thickness&Type of Scour/Sediment Protection Layer Installed:    3" of Pea Gravel  
 Date and Time Pre-Soaked: ..... 05/16/23    Time: 14:05  
 Depth to Water Level, Below Top of Casing  
     Just After Pre-Soak Filling (ft):    4.50  
     Just Prior to First Test Filling (ft):    5.20    Date: 5/17/2023    Time: 11:20

**Test Observations**

Run 1			Run 2			Run 3			Run 4		
Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)
11:22	0:00	4.50		0:00			0:00			0:00	
11:23	0:01	4.50		0:01			0:01			0:01	
11:24	0:02	4.50		0:02			0:02			0:02	
11:25	0:03	4.50		0:03			0:03			0:03	
11:27	0:05	4.50		0:05			0:05			0:05	
11:32	0:10	4.50		0:10			0:10			0:10	
11:37	0:15	4.50		0:15			0:15			0:15	
11:52	0:30	4.50		0:30			0:30			0:30	
12:07	0:45	4.50		0:45			0:45			0:45	
12:22	1:00	4.50		1:00			1:00			1:00	

**Test Results**

Run:	Run 1	Run 2	Run 3	Run 4
Infiltration Rate (feet/hour):	0.00			
Infiltration Rate (inches/hour):	0.00			

**Final Infiltration Rate (inches/hour):**    0.00     Based on average of all four runs  
 Based on result of last run

**Note(s)**

1. Test performed in general conformance with NYS Stormwater Management Design Manual, Appendix D: Infiltration Testing Requirements.
2. Test Pipe installed near Test Boring B-129

**INFILTRATION TEST REPORT**



<b>Test ID: IT-2</b>											
Project:	Micron Campus Clay, NY	CME Report No.:	28062B-01-0523R1								
		Test Date:	05/17/23								
Client:	Ramboll	Test Location:	See Exploration Location Plan								
		Technician:	S.Yumusak								
<b>Test Preparation and Dimensions</b>											
Casing Installed in: <input type="checkbox"/> Test Pit <input checked="" type="checkbox"/> Borehole Casing Diameter and Type: <u>4 inch I.D. HDPE</u>											
A Existing Grade Elevation (ft): .....			<u>394.6</u>								
B Casing Stickup Length Above Grade (ft): .....			<u>3.0</u>								
C Top of Casing Elevation (ft): .....		(A+B)=	<u>397.6</u>								
D Depth to Bottom of Test Hole, Below Top of Casing (ft): .....			<u>7.3</u>								
E Bottom of Test Hole Elevation: .....		(C-D)=	<u>390.3</u>								
Burmister Classification of Soil at Bottom of Hole: <u>Brown Mottled SILT, little CLAY</u>											
Thickness&Type of Scour/Sediment Protection Layer Installed: <u>3" of Pea Gravel</u>											
Date and Time Pre-Soaked: ..... <u>05/16/23</u> Time: <u>13:15</u>											
Depth to Water Level, Below Top of Casing											
Just After Pre-Soak Filling (ft): <u>5.30</u>											
Just Prior to First Test Filling (ft): <u>5.30</u>		Date: <u>5/17/2023</u>	Time: <u>9:47</u>								
<b>Test Observations</b>											
<b>Run 1     Run 2     Run 3     Run 4</b>											
Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)
9:47	0:00	5.30		0:00			0:00			0:00	
9:48	0:01	5.30		0:01			0:01			0:01	
9:49	0:02	5.30		0:02			0:02			0:02	
9:50	0:03	5.30		0:03			0:03			0:03	
9:52	0:05	5.30		0:05			0:05			0:05	
9:57	0:10	5.30		0:10			0:10			0:10	
10:02	0:15	5.30		0:15			0:15			0:15	
10:17	0:30	5.30		0:30			0:30			0:30	
10:32	0:45	5.30		0:45			0:45			0:45	
10:47	1:00	5.30		1:00			1:00			1:00	
<b>Test Results</b>											
Run:		Run 1	Run 2	Run 3	Run 4						
Infiltration Rate (feet/hour):		0.00									
Infiltration Rate (inches/hour):		0.00									
<b>Final Infiltration Rate (inches/hour):</b>		<b><u>0.00</u></b>	<input type="checkbox"/> Based on average of all four runs								
			<input type="checkbox"/> Based on result of last run								
<b>Note(s)</b>											
1. Test performed in general conformance with NYS Stormwater Management Design Manual, Appendix D: Infiltration Testing Requirements.											
2. Test Pipe installed near Test Boring B-24											

# INFILTRATION TEST REPORT



**Test ID: IT-3**

Project:	Micron Campus, Clay Clay, NY	CME Report No.:	28062B-01-0523R1
		Test Date:	05/17/23
Client:	Ramboll	Test Location:	See Exploration Location Plan
		Technician:	S.Yumusak

### Test Preparation and Dimensions

Casing Installed in:  Test Pit  Borehole  
 Casing Diameter and Type: 4 inch I.D. HDPE

A Existing Grade Elevation (ft): ..... 389.3  
 B Casing Stickup Length Above Grade (ft): ..... 1.0  
 C Top of Casing Elevation (ft): ..... (A+B)= 390.3  
 D Depth to Bottom of Test Hole, Below Top of Casing (ft): ..... 6.0  
 E Bottom of Test Hole Elevation: ..... (C-D)= 384.3

Burmister Classification of Soil at Bottom of Hole: Light Brown/Grey SILT, little CLAY  
 Thickness&Type of Scour/Sediment Protection Layer Installed: 3" of Pea Gravel  
 Date and Time Pre-Soaked: ..... 05/16/23 Time: 14:40  
 Depth to Water Level, Below Top of Casing  
 Just After Pre-Soak Filling (ft): 4.00  
 Just Prior to First Test Filling (ft): 3.70 Date: 5/17/2023 Time: 12:20

### Test Observations

Run 1			Run 2			Run 3			Run 4		
Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)
12:26	0:00	4.00		0:00			0:00			0:00	
12:27	0:01	4.00		0:01			0:01			0:01	
12:28	0:02	4.00		0:02			0:02			0:02	
12:29	0:03	4.00		0:03			0:03			0:03	
12:31	0:05	4.00		0:05			0:05			0:05	
12:36	0:10	4.00		0:10			0:10			0:10	
12:41	0:15	4.00		0:15			0:15			0:15	
12:56	0:30	4.00		0:30			0:30			0:30	
13:11	0:45	4.00		0:45			0:45			0:45	
13:26	1:00	4.00		1:00			1:00			1:00	

### Test Results

Run:	Run 1	Run 2	Run 3	Run 4
Infiltration Rate (feet/hour):	0.00			
Infiltration Rate (inches/hour):	0.00			

**Final Infiltration Rate (inches/hour):** 0.00  Based on average of all four runs  
 Based on result of last run

### Note(s)

- Test performed in general conformance with NYS Stormwater Management Design Manual, Appendix D: Infiltration Testing Requirements.
- Test Pipe installed near Test Boring B-227

**Bedrock Core Photographs**

Attachment to CME Report No: 28062B-01-0523



**Photograph 1**

Boring: B-227 Run 1 Depth 24.0' - 29.0'

See Photograph Nos. 2 and 3 for detailed views.



**Photograph 2**

B-227 Run 1 Top Depth 24.0' - 26.5'



**Photograph 3**

B-227 Run 1 Bottom Depth 26.5' - 29.0'

**Bedrock Core Photographs**

Attachment to CME Report No: 28062B-01-0523



**Photograph 4**

Boring: B-41 Run 1 Depth 4.3' - 9.3'

See Photograph Nos. 5 and 6 for detailed views.



**Photograph 5**

B-41 Run 1 Top Depth 4.3' - 6.8'



**Photograph 6**

B-41 Run 1 Bottom Depth 6.8' - 9.3'

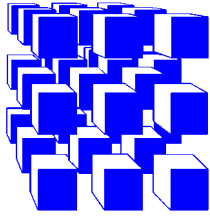
**Bedrock Core Photographs**

Attachment to CME Report No: 28062B-01-0523



**Photograph 7**

Boring: B-129    Run 1    Depth 29.8' - 34.8'



**LABORATORY TEST SUMMARY**  
**Micron Campus, Clay, New York**  
**Ramboll**  
**CME Report No.: 28062L-01-0523**  
**May 15, 2023**  
**Page 1 of 11**

CME Representatives obtained soil and rock samples from Test Borings advanced as part of the Subsurface Exploration Program conducted for the subject project. Selected samples were delivered to CME's East Syracuse facility, an AASHTO re:source<sup>1</sup> accredited laboratory for various laboratory testing. The results are presented below:

Sample ID Notations: B - Test Boring, S – Sample, R – Run

**I. Natural Moisture Content (ASTM D2216)**

<b>Sample ID</b>	<b>Natural Moisture (%)</b>	<b>Sample ID</b>	<b>Natural Moisture (%)</b>
B-24; S-1B	25.9	B-135; S-1A	39.2
B-24; S-2	27.1	B-135; S-1B	21.5
B-24; S-3	28.2	B-135; S-2	8.9
B-24; S-4	24.0	B-135; S-3	10.0
B-24; S-5	20.2	B-135; S-4A	11.5
B-24; S-6A	22.2	B-135; S-4B	7.0
B-24; S-6B	12.5	B-135; S-5	6.7
B-24; S-7	3.1	B-135; S-6A	5.8
B-24; S-8	6.0	B-135; S-6B	12.0
B-42; S-2	15.3	B-135; S-7	4.5
B-43; S-2	17.4	B-136; S-2	19.4
B-50; S-2	10.8	B-136; S-3	20.3
B-229; S-2	27.4	B-129; S-2	28.4
B-23; S-3	36.2	B-129; S-3	30.0
B-226; S-2	27.7	B-132; S-2	16.2
B-134; S-2	11.0	B-132; S-3	17.9
B-134; S-3	6.4		

<sup>1</sup>AASHTO re:source – American Association of State Highway & Transportation Officials (AASHTO) Materials Reference Laboratory, a Federal Agency having jurisdiction to assess laboratory competency according to the Standards of the United States of America. CME East Syracuse accreditation includes testing of Portland Cement Concrete, Aggregate and Soil Materials. [www.AASHTOresource.org](http://www.AASHTOresource.org).



**II. Atterberg Limits Testing (ASTM D4318)**

<b>Sample ID</b>	<b>Liquid Limit</b>	<b>Plastic Limit</b>	<b>Plasticity Index</b>	<b>Natural Moisture (%)</b>
B-24; S-1B	41	23	18	25.9
B-24; S-2	28	21	7	27.1
B-129; S-2	27	18	9	28.4
B-226; S-2	33	20	13	27.7
B-229; S-2	25	19	6	27.4

**III. Organic Content (ASTM D2974)**

<b>Sample ID</b>	<b>Organic Content (%)</b>
B-23; S-3	5.0
B-226; S-2	3.0

**IV. Soil Sulfates (AASHTO T290) and Chlorides (AASHTO T291)**

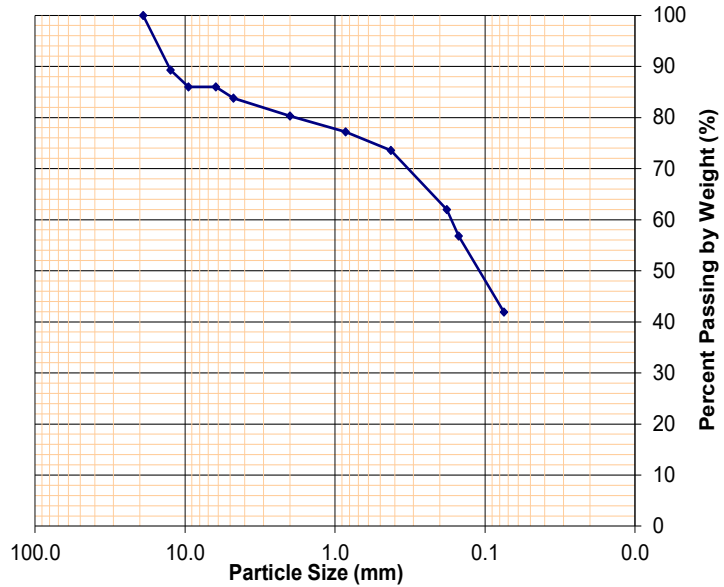
Four soil samples were shipped to Geotechnics for Sulfate and Chloride testing. Please see attached *Geotechnics Reports* for testing results.

**V. Particle Size Analysis (ASTM D422)**

Sample #  
 B-42; S-2

Classification  
 Light Brown SILT and cmf SAND, little mf GRAVEL  
Grain Size Distribution Curve

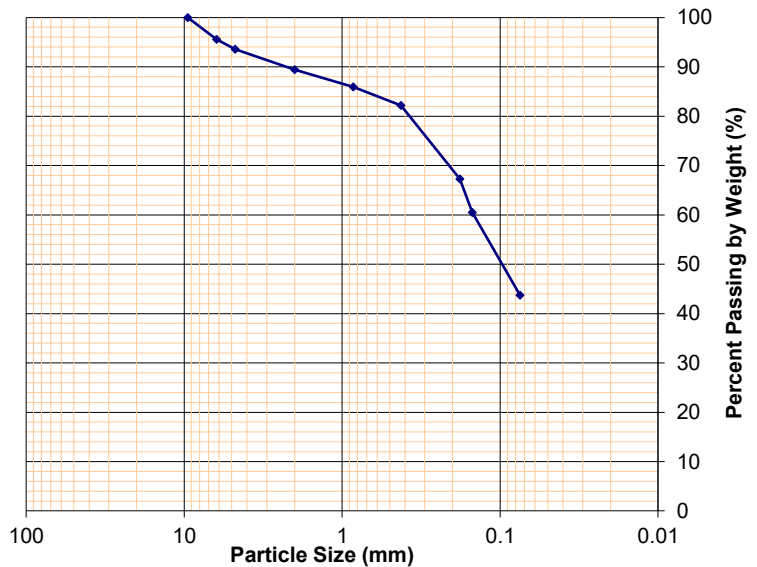
<u>Sieve Designation</u>	<u>Sieve Size (mm)</u>	<u>% Passing by Dry Weight</u>
3/4"	19.0	100
1/2"	12.5	89
3/8"	9.5	86
1/4"	6.25	86
No.4	4.75	84
No.10	2.00	80
No.20	0.850	77
No.40	0.425	74
No.80	0.180	62
No.100	0.150	57
No.200	0.075	42



Sample #  
 B-43; S-2

Classification  
 Light Brown cmf SAND and SILT, trace fine GRAVEL  
Grain Size Distribution Curve

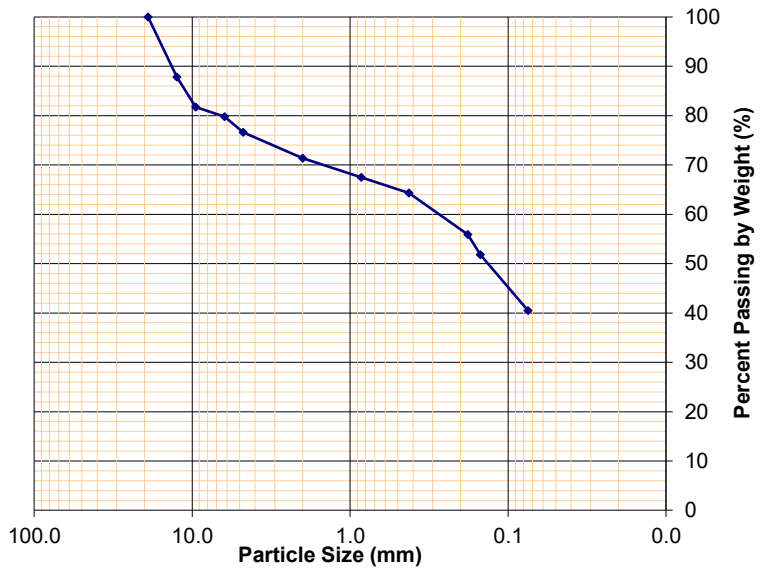
<u>Sieve Designation</u>	<u>Sieve Size (mm)</u>	<u>% Passing by Dry Weight</u>
3/8"	9.5	100
1/4"	6.25	96
No.4	4.75	94
No.10	2.00	89
No.20	0.850	86
No.40	0.425	82
No.80	0.180	67
No.100	0.150	60
No.200	0.075	44



**Sample #**  
 B-50; S-2

**Classification**  
 Light Brown SILT and cmf SAND, some mf GRAVEL  
Grain Size Distribution Curve

<u>Sieve Designation</u>	<u>Sieve Size (mm)</u>	<u>% Passing by Dry Weight</u>
3/4"	19.0	100
1/2"	12.5	88
3/8"	9.5	82
1/4"	6.25	80
No.4	4.75	77
No.10	2.00	71
No.20	0.850	67
No.40	0.425	64
No.80	0.180	56
No.100	0.150	52
No.200	0.075	40

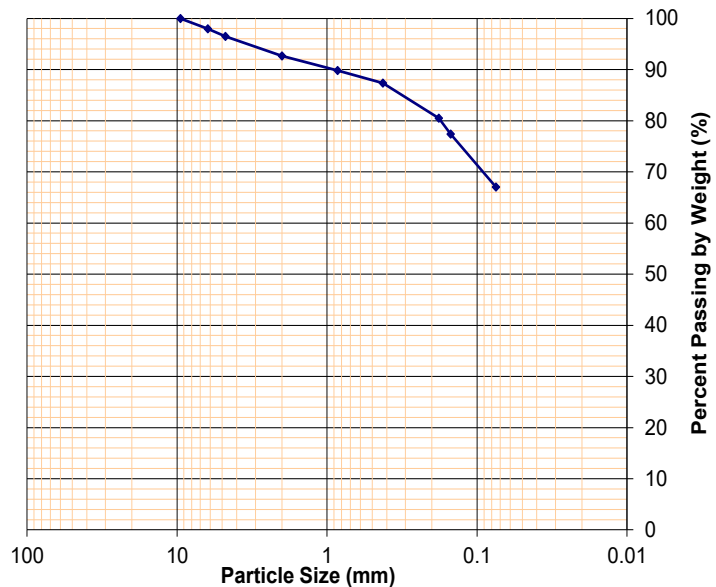


**Sample #**  
 B-132; S-2

**Classification**  
 Light Brown SILT, some cmf SAND, trace CLAY, trace fine GRAVEL

<u>Sieve Designation</u>	<u>Sieve Size (mm)</u>	<u>% Passing by Dry Weight</u>
3/8"	9.5	100
1/4"	6.25	98
No.4	4.75	96
No.10	2.00	93
No.20	0.850	90
No.40	0.425	87
No.80	0.180	80
No.100	0.150	77
No.200	0.075	67

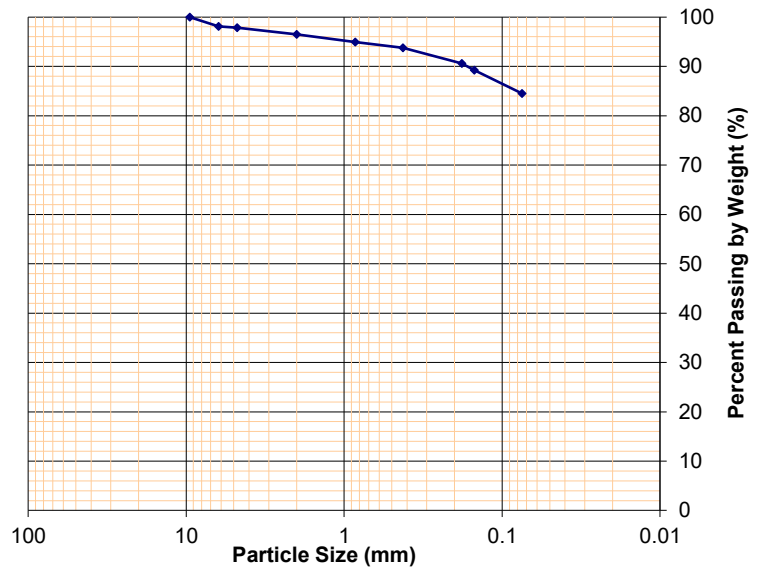
Grain Size Distribution Curve



**Sample #**  
 B-132; S-3

**Classification**  
 Light Brown SILT, little cmf SAND, trace CLAY, trace fine GRAVEL  
Grain Size Distribution Curve

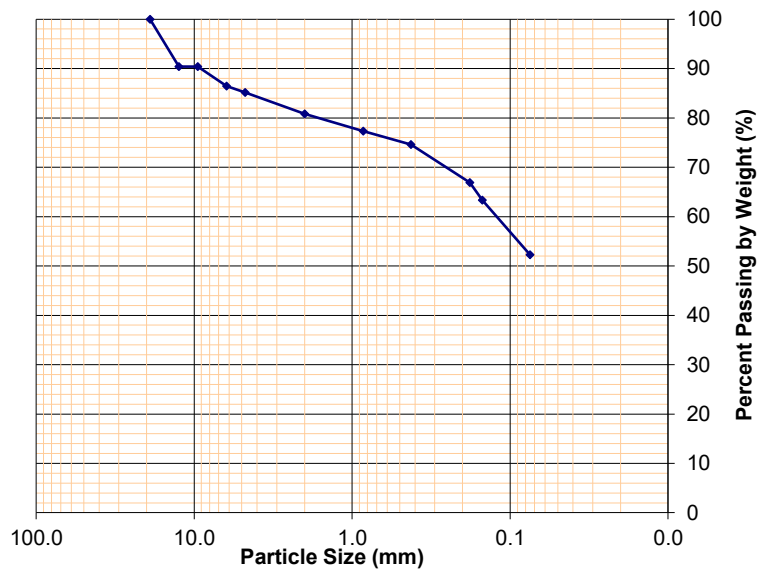
<u>Sieve Designation</u>	<u>Sieve Size (mm)</u>	<u>% Passing by Dry Weight</u>
3/8"	9.5	100
1/4"	6.25	98
No.4	4.75	98
No.10	2.00	96
No.20	0.850	95
No.40	0.425	94
No.80	0.180	91
No.100	0.150	89
No.200	0.075	85



**Sample #**  
 B-134; S-2

**Classification**  
 Brown SILT, some cmf SAND, little mf GRAVEL  
Grain Size Distribution Curve

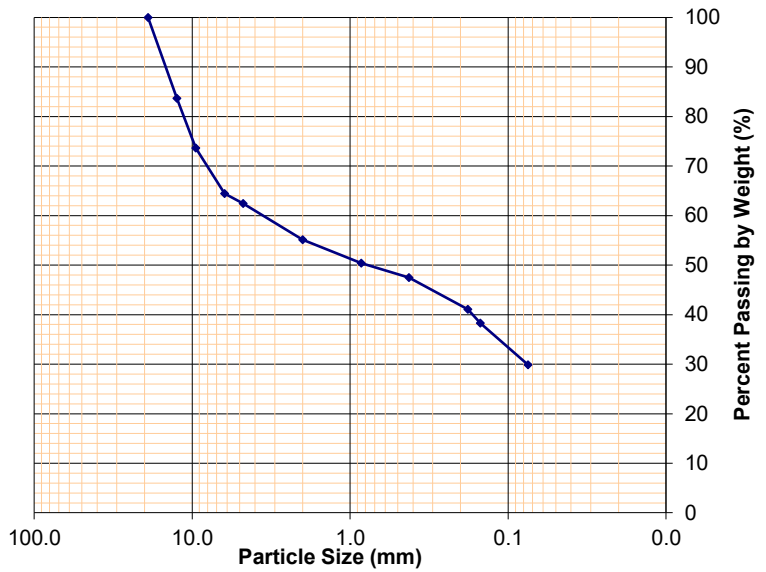
<u>Sieve Designation</u>	<u>Sieve Size (mm)</u>	<u>% Passing by Dry Weight</u>
3/4"	19.0	100
1/2"	12.5	90
3/8"	9.5	90
1/4"	6.25	86
No.4	4.75	85
No.10	2.00	81
No.20	0.850	77
No.40	0.425	75
No.80	0.180	67
No.100	0.150	63
No.200	0.075	52



**Sample #**  
 B-134; S-3

**Classification**  
 Brown mf GRAVEL, some cmf SAND, some SILT, trace CLAY  
Grain Size Distribution Curve

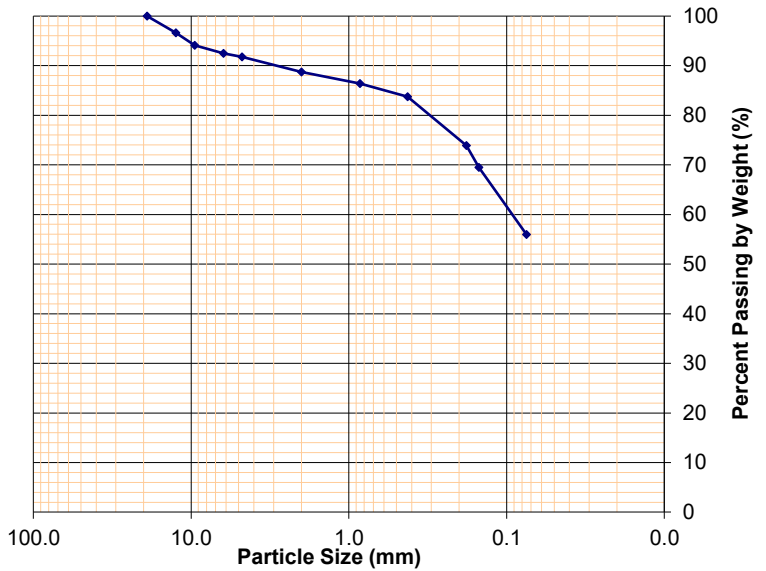
<u>Sieve Designation</u>	<u>Sieve Size (mm)</u>	<u>% Passing by Dry Weight</u>
3/4"	19.0	100
1/2"	12.5	84
3/8"	9.5	74
1/4"	6.25	64
No.4	4.75	62
No.10	2.00	55
No.20	0.850	50
No.40	0.425	48
No.80	0.180	41
No.100	0.150	38
No.200	0.075	30



**Sample #**  
 B-136; S-2

**Classification**  
 Brown SILT and cmf SAND, trace mf GRAVEL, trace CLAY  
Grain Size Distribution Curve

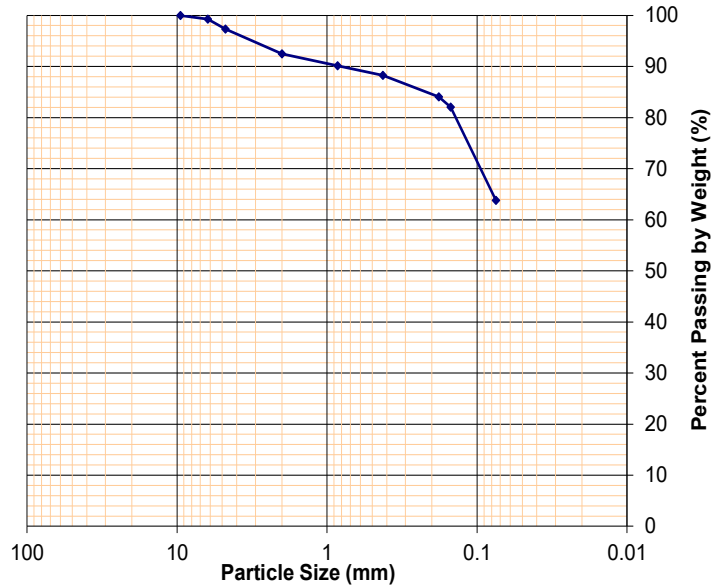
<u>Sieve Designation</u>	<u>Sieve Size (mm)</u>	<u>% Passing by Dry Weight</u>
3/4"	19.0	100
1/2"	12.5	97
3/8"	9.5	94
1/4"	6.25	92
No.4	4.75	92
No.10	2.00	89
No.20	0.850	86
No.40	0.425	84
No.80	0.180	74
No.100	0.150	69
No.200	0.075	56



**Sample #**  
 B-136; S-3

**Classification**  
 Brown SILT, some cmf SAND, trace fine GRAVEL  
Grain Size Distribution Curve

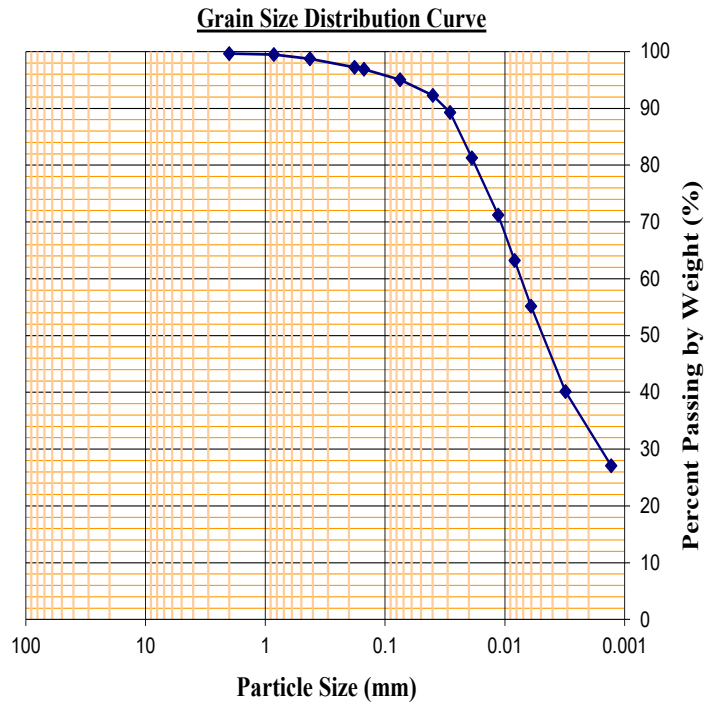
<u>Sieve Designation</u>	<u>Sieve Size (mm)</u>	<u>% Passing by Dry Weight</u>
3/8"	9.5	100
1/4"	6.25	99
No.4	4.75	97
No.10	2.00	92
No.20	0.850	90
No.40	0.425	88
No.80	0.180	84
No.100	0.150	82
No.200	0.075	64



**Sample #**  
 B-24; S-1B

**Classification**  
 Brown SILT and CLAY, trace mf SAND  
Grain Size Distribution Curve

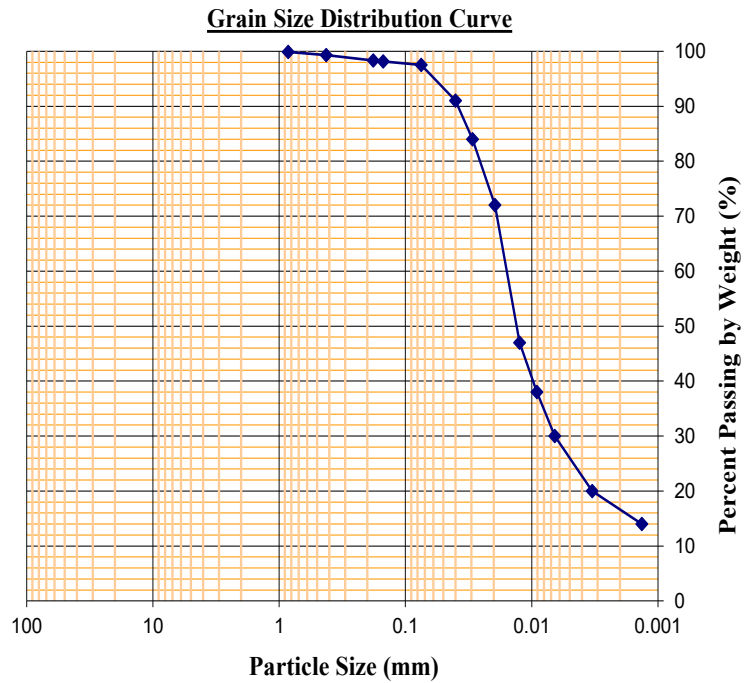
<u>Sieve Designation</u>	<u>Sieve Size (mm)</u>	<u>Percent Passing by Weight (%)</u>
No.10	2.00	100
No.20	0.850	99
No.40	0.425	99
No.80	0.180	97
No.100	0.150	97
No.200	0.075	95
Hydrometer	0.040	92
	0.029	89
	0.019	81
	0.011	71
	0.008	63
	0.006	55
	0.003	40
	0.001	27



**Sample #**  
 B-24; S-2

**Classification**  
 Brown SILT, some CLAY, trace mf SAND

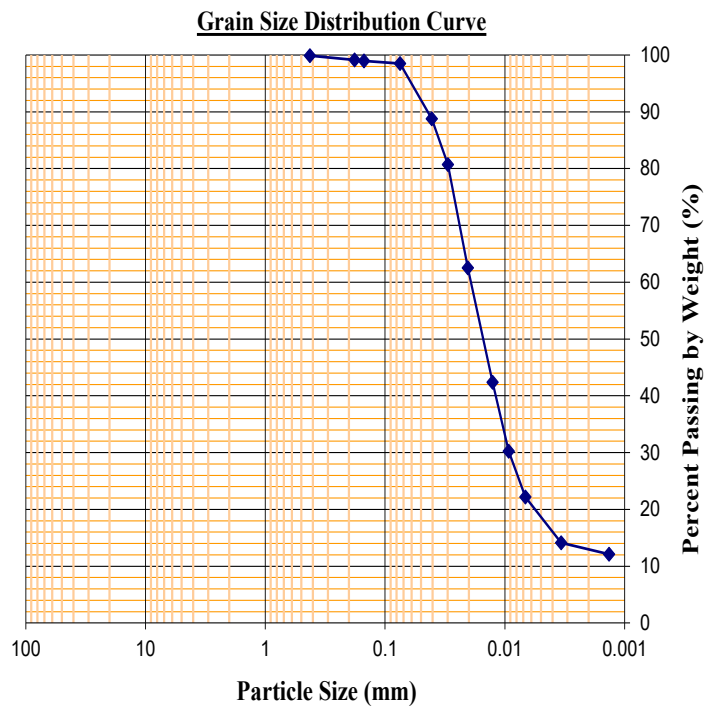
Sieve Designation	Sieve Size (mm)	Percent Passing by Weight (%)
No.20	0.850	100
No.40	0.425	99
No.80	0.180	98
No.100	0.150	98
No.200	0.075	98
Hydrometer	0.040	91
	0.029	84
	0.020	72
	0.012	47
	0.009	38
	0.007	30
	0.003	20
	0.001	14



**Sample #**  
 B-24; S-3

**Classification**  
 Brown SILT, some CLAY, trace fine SAND

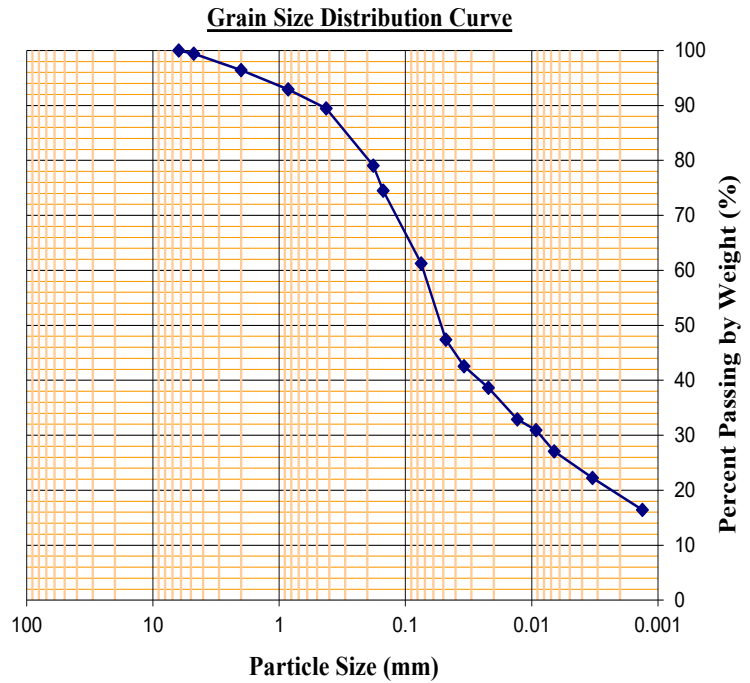
Sieve Designation	Sieve Size (mm)	Percent Passing by Weight (%)
No.40	0.425	100
No.80	0.180	99
No.100	0.150	99
No.200	0.075	99
Hydrometer	0.041	89
	0.030	81
	0.020	63
	0.013	42
	0.009	30
	0.007	22
	0.003	14
	0.001	12



**Sample #**  
 B-129; S-2

**Classification**  
 Light Brown cmf SAND and SILT, some CLAY, trace fine GRAVEL

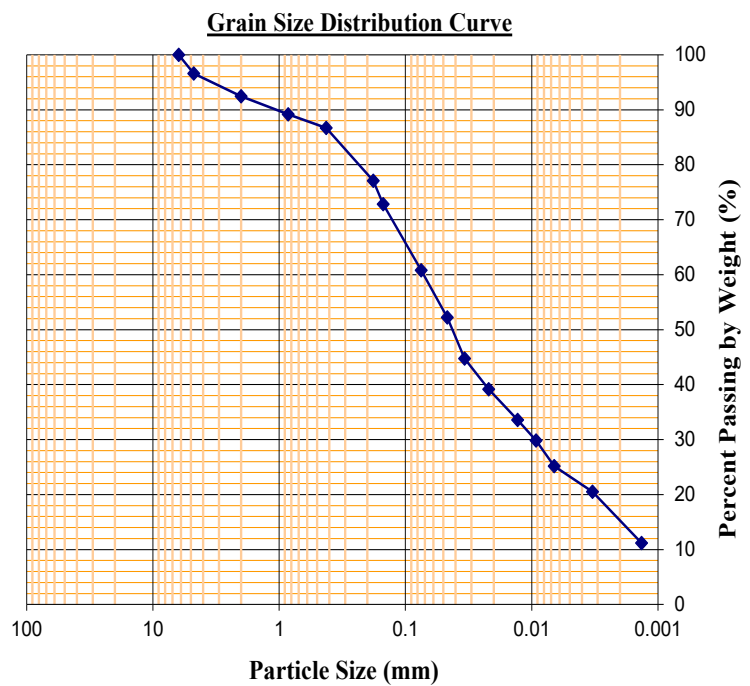
<u>Sieve Designation</u>	<u>Sieve Size (mm)</u>	<u>Percent Passing by Weight (%)</u>
1/4"	6.25	100
No.4	4.75	99
No.10	2.00	96
No.20	0.850	93
No.40	0.425	89
No.80	0.180	79
No.100	0.150	75
No.200	0.075	61
Hydrometer	0.048	47
	0.034	43
	0.022	39
	0.013	33
	0.009	31
	0.007	27
	0.003	22
	0.001	16



**Sample #**  
 B-129; S-3

**Classification**  
 Brown SILT and cmf SAND, some CLAY, trace fine GRAVEL

<u>Sieve Designation</u>	<u>Sieve Size (mm)</u>	<u>Percent Passing by Weight (%)</u>
1/4"	6.25	100
No.4	4.75	97
No.10	2.00	92
No.20	0.850	89
No.40	0.425	87
No.80	0.180	77
No.100	0.150	73
No.200	0.075	61
Hydrometer	0.047	52
	0.034	45
	0.022	39
	0.013	34
	0.009	30
	0.007	25
	0.003	21
	0.001	11

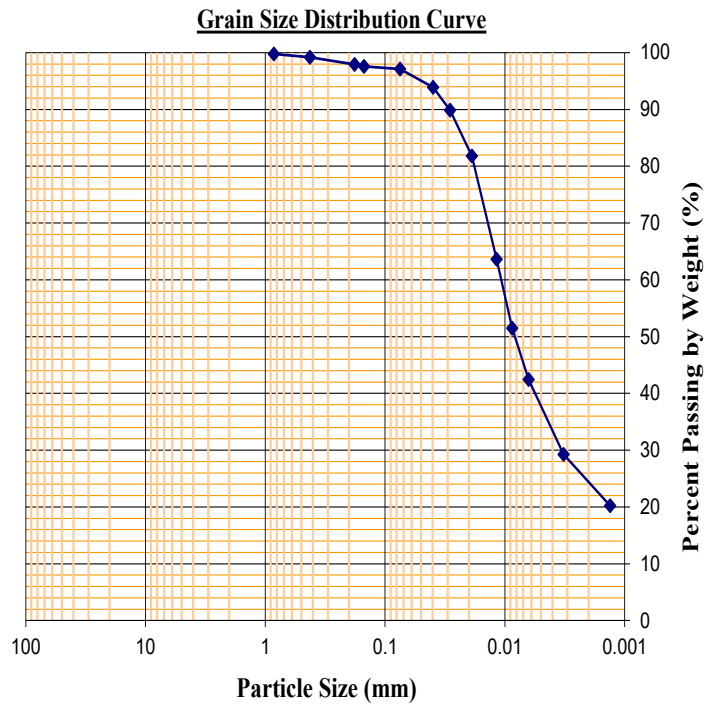




**Sample #**  
 B-226; S-2

**Classification**  
 Light Brown/Grey SILT and CLAY, trace mf SAND

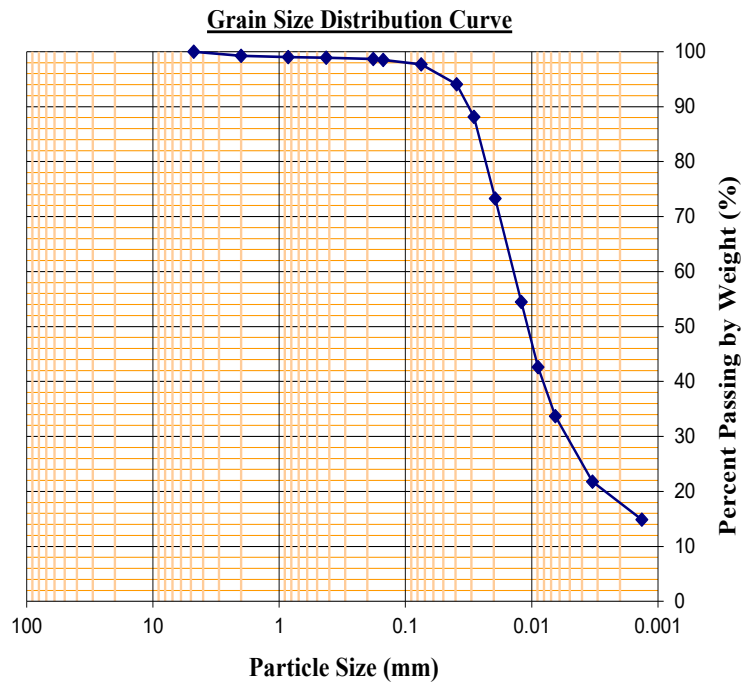
<u>Sieve Designation</u>	<u>Sieve Size (mm)</u>	<u>Percent Passing by Weight (%)</u>
No.20	0.850	100
No.40	0.425	99
No.80	0.180	98
No.100	0.150	98
No.200	0.075	97
Hydrometer	0.040	94
	0.029	90
	0.019	82
	0.012	64
	0.009	51
	0.006	42
	0.003	29
	0.001	20



**Sample #**  
 B-229; S-2

**Classification**  
 Light Brown/Grey SILT, some CLAY, trace cmf SAND

<u>Sieve Designation</u>	<u>Sieve Size (mm)</u>	<u>Percent Passing by Weight (%)</u>
No.4	4.75	100
No.10	2.00	99
No.20	0.850	99
No.40	0.425	99
No.80	0.180	99
No.100	0.150	98
No.200	0.075	98
Hydrometer	0.039	94
	0.029	88
	0.019	73
	0.012	54
	0.009	43
	0.006	34
	0.003	22
	0.001	15



**VI. Rock Core Compression (ASTM D7012 Method C)**

**A) Testing Conditions:**

Tested by:	H.K.	Moisture Condition:	Laboratory air-dry	Equipment:	Forney QC-400-DR
Date of Test:	5/4/2023	Load Direction:	Generally perpendicular to laminations		

**B) Core Identification and Location:**

Core ID	Location	Description
B-227; R-1	24.3' – 24.7'	Grey DOLOSTONE, slightly weathered, medium to thickly bedded, hard, thin layers (<1/8") of SHALE interbedded
B-41; R-1A	4.3' – 4.9'	Grey DOLOSTONE, slightly weathered, thinly to medium bedded, hard, thin layers (<1/4") of SHALE interbedded
B-41; R-1B	7.0' – 7.6'	Dark Grey SHALE, fresh, thinly bedded, medium hard

**C) Core Measurements:**

Core ID	Core Diameter (inch)	Length (in.)	Length to Diameter	Mass (g)	Density (lb./ft <sup>3</sup> )
B-227; R-1	1.99	4.24	2.13	583.96	169
B-41; R-1A	1.98	4.15	2.09	595.34	177
B-41; R-1B	1.99	4.35	2.18	623.57	176

**D) Compression Test Results:**

Core ID	Specimen Area (inch <sup>2</sup> )	Total Load (lbs.)	Compressive Strength (psi)	Temperature (°C)	Time to Failure (seconds)	Rate of Loading (psi/sec)
B-227; R-1	3.11	51,500	16,560	22	68.50	242
B-41; R-1A	3.08	57,000	18,510	22	96.10	193
B-41; R-1B	3.11	77,500	24,920	22	120.49	207

If you have any questions regarding this report please contact our office.

\_\_\_\_\_  
 Hannah Kloiber  
 Laboratory Supervisor

Attachments:

- Geotechnics Report, dated 05/10/2023 (5 of 5)
- Geotechnics Report, dated 05/12/2023 (5 of 5)
- Rock Compression Test Photographs (2 of 2)



May 10, 2023

Project No. 2023-294-001

Ms. Hannah Kloiber  
CME Associates, Inc.  
6035 Corporate Drive  
East Syracuse, NY 13057

**Transmittal**  
**Laboratory Test Results**  
**28062**

Please find attached the laboratory test results for the above referenced project. The tests were outlined on the Project Verification Form that was transmitted to your firm prior to the testing. The testing was performed in general accordance with the methods listed on the enclosed data sheets. The test results are believed to be representative of the samples that were submitted for testing and are indicative only of the specimens that were evaluated. We have no direct knowledge of the origin of the samples and imply no position with regard to the nature of the test results, i.e. pass/fail and no claims as to the suitability of the material for its intended use.

The test data and all associated project information provided shall be held in strict confidence and disclosed to other parties only with authorization by our Client. The test data submitted herein is considered integral with this report and is not to be reproduced except in whole and only with the authorization of the Client and Geotechnics. The remaining sample materials for this project will be retained for a minimum of 90 days as directed by the Geotechnics' Quality Program.

We are pleased to provide these testing services. Should you have any questions or if we may be of further assistance, please contact our office.

Respectfully submitted,  
**Geotechnics, Inc.**

Nathan Melaro  
Director of Operations

***We understand that you have a choice in your laboratory services  
and we thank you for choosing Geotechnics.***

**CHLORIDE ION CONTENT IN SOILS**  
AASHTO T 291 - 94 (2018) (Method B)

Client: CME Associates, Inc.  
Client Reference: 28062  
Project No.: 2023-294-001  
Lab ID: 2023-294-001-001

Boring No.: B129  
Depth (ft): 2.0-4.0'  
Sample No.: B129  
Description: Brown Soil  
( - # 10 Sieve material )

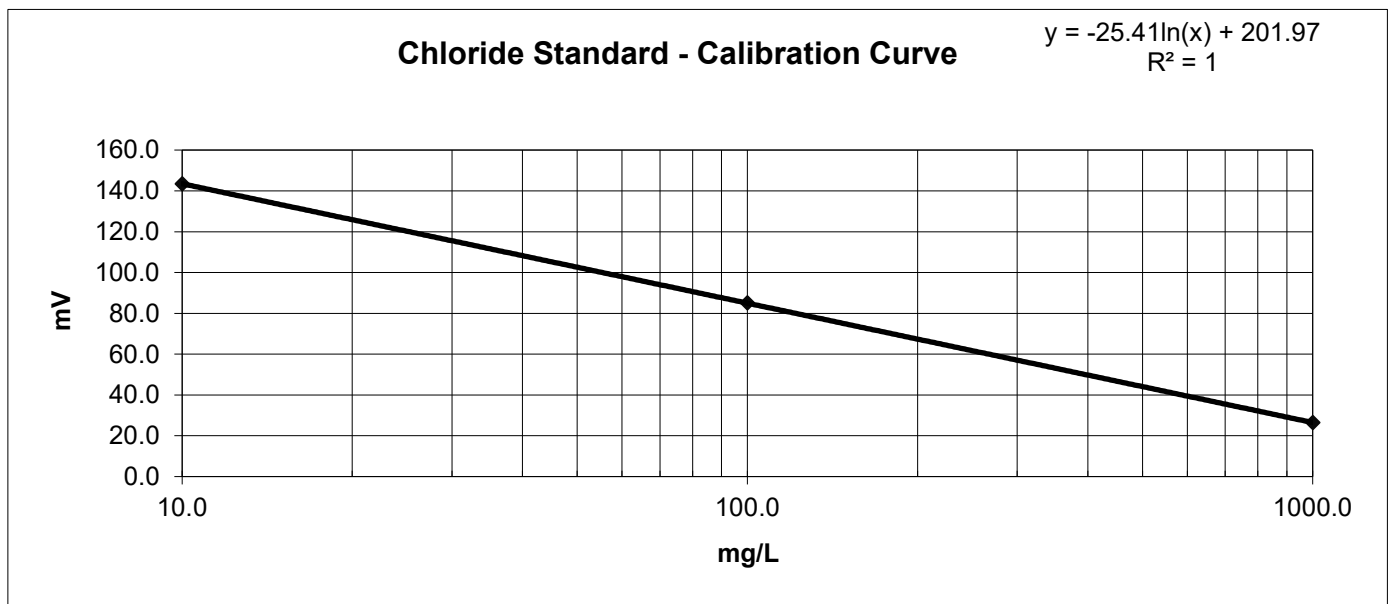
**CHLORIDE STANDARD: CALIBRATION CURVE**

STANDARD	MILLIVOLTS (mV)
10.0 mg/L	143.4
100.0 mg/L	85.1
1000.0 mg/L	26.4

**MEASUREMENT OF CHLORIDES**

Sample Weight (g):	<u>100.0</u>	CONCENTRATION	CONCENTRATION
Water added to Sample (ml):	<u>100.0</u>	(mg/L)	(mg/kg)
Size of Sample Aliquot (ml):	<u>25.0</u>		
Sample Reading (mV):	<u>174.3</u>	2.97	2.97

Notes: 1) Samples and standards were buffered by the addition of an equal volume of the 0.2 M KNO<sub>3</sub> solution (1:1 volume).  
2) Samples were dried for a minimum of 12 hours at 110 ± 5°C.



Notes:

Tested By JAM Date 5/9/23 Checked By TWV Date 5/10/23

## Water-Soluble Sulfate Ion Content in Soil AASHTO T 290-95 (2020)

Client:	CME Associates, Inc.	Boring No.: B129
Client Reference:	28062	Depth (ft): 2.0-4.0'
Project No.:	2023-294-001	Sample No.: B129
Lab ID:	2023-294-001-001	Soil Description: Brown Soil

### Sulfate Standard - Calibration Curve Spectrophotometer Readings

<u>Sulfate Ion Concentrations (mg/L)</u>									
0.0	4.0	10.0	20.0	30.0	40.0	60.0	80.0	100.0	
<u>Spectrophotometer Readings (FAU)</u>									
Underrange	Underrange	8	18	36	61	126	165	247	

### Measurement of Barium Chloride Turbidity

(Sample contains 5.0 mL NaCl solution and 0.3 g BaCl<sub>2</sub>·2H<sub>2</sub>O)

**Sample Weight (g):** 100.0  
**Water added to Sample (mL):** 300.0  
**Size of Sample Aliquot (mL):** 50.0  
**Sample Reading (FAU):** 65

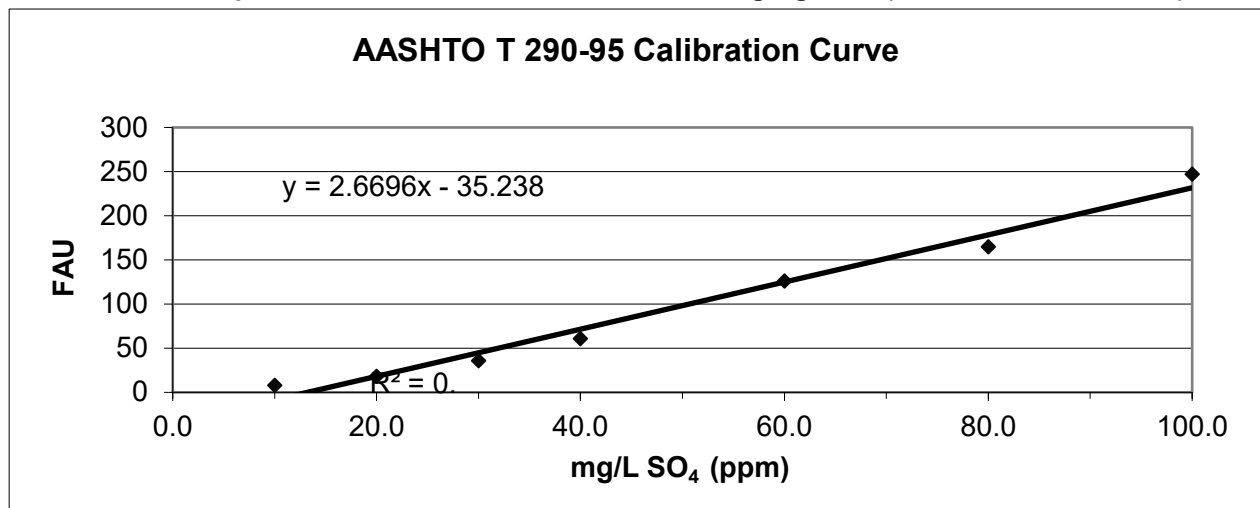
**Sample Diluted:** No

**Sulfate Solution Added (ml):** 0

### Sample Moisture Content

**Tare Number:** 673  
**Weight of Tare & Wet Sample (g):** 177.92  
**Weight of Tare & Dry Sample (g):** 176.67  
**Weight of Tare (g):** 72.33  
**Weight of Water (g):** 1.25  
**Weight of Dry Sample (g):** 104.34  
**Moisture Content (%):** 1.20

<b>Sample Sulfate Ion Concentration:</b>	37.55	<b>mg/L SO<sub>4</sub> (ppm)</b>
<b>Sample Sulfate Ion Content:</b>	112.6	<b>mg/Kg SO<sub>4</sub> (not corrected for moisture)</b>
<b>Sample Sulfate Ion Content:</b>	114.0	<b>mg/Kg SO<sub>4</sub> (corrected for moisture)</b>



Tested by: JAM      Date: 5/9/23      Checked by: TWV      Date: 5/10/2023

**CHLORIDE ION CONTENT IN SOILS**  
AASHTO T 291 - 94 (2018) (Method B)

Client: CME Associates, Inc.  
Client Reference: 28062  
Project No.: 2023-294-001  
Lab ID: 2023-294-001-002

Boring No.: B129  
Depth (ft): 4.0-6.0'  
Sample No.: B129  
Description: Brown Soil  
( - # 10 Sieve material )

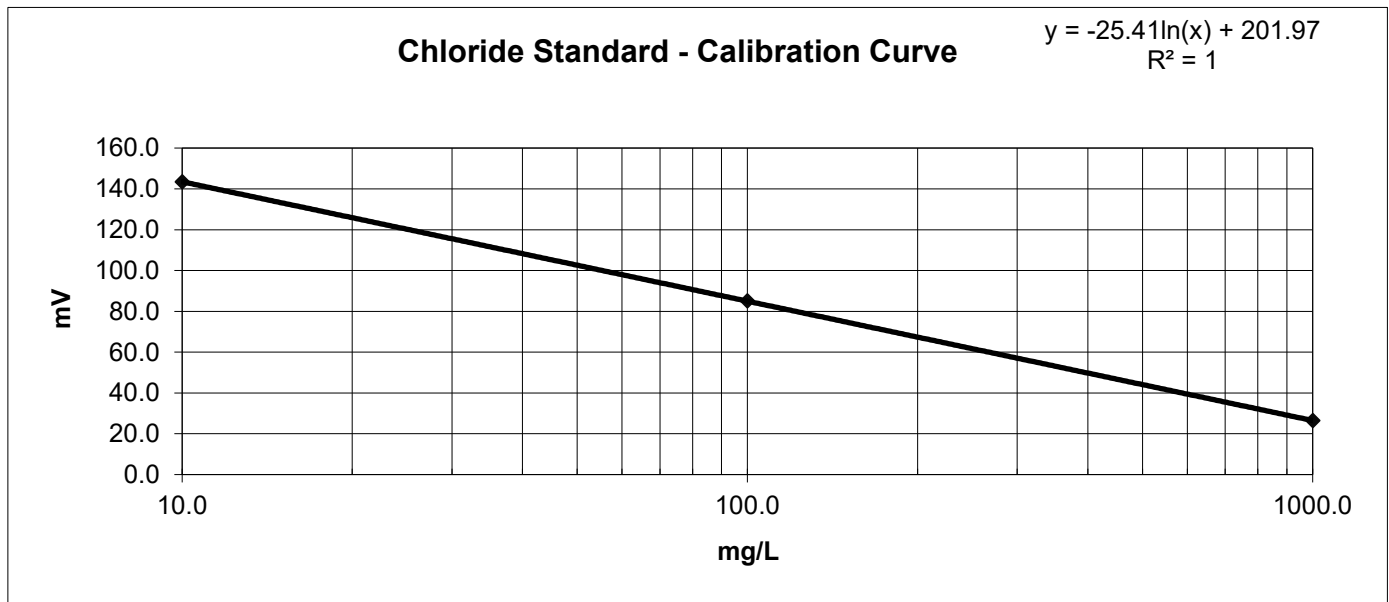
**CHLORIDE STANDARD: CALIBRATION CURVE**

STANDARD	MILLIVOLTS (mV)
10.0 mg/L	143.4
100.0 mg/L	85.1
1000.0 mg/L	26.4

**MEASUREMENT OF CHLORIDES**

Sample Weight (g):	<u>100.0</u>	CONCENTRATION	CONCENTRATION
Water added to Sample (ml):	<u>100.0</u>	(mg/L)	(mg/kg)
Size of Sample Aliquot (ml):	<u>25.0</u>		
Sample Reading (mV):	<u>159.9</u>	5.24	5.24

Notes: 1) Samples and standards were buffered by the addition of an equal volume of the 0.2 M KNO<sub>3</sub> solution (1:1 volume).  
2) Samples were dried for a minimum of 12 hours at 110 ± 5°C.



Notes:

Tested By JAM Date 5/9/23 Checked By TWV Date 5/10/23

## Water-Soluble Sulfate Ion Content in Soil AASHTO T 290-95 (2020)

Client:	CME Associates, Inc.	Boring No.:	B129
Client Reference:	28062	Depth (ft):	4.0-6.0'
Project No.:	2023-294-001	Sample No.:	B129
Lab ID:	2023-294-001-002	Soil Description:	Brown Soil

### Sulfate Standard - Calibration Curve Spectrophotometer Readings

<u>Sulfate Ion Concentrations (mg/L)</u>									
0.0	4.0	10.0	20.0	30.0	40.0	60.0	80.0	100.0	
<u>Spectrophotometer Readings (FAU)</u>									
Underrange	Underrange	8	18	36	61	126	165	247	

### Measurement of Barium Chloride Turbidity

(Sample contains 5.0 mL NaCl solution and 0.3 g BaCl<sub>2</sub>·2H<sub>2</sub>O)

**Sample Weight (g):** 100.0  
**Water added to Sample (mL):** 300.0  
**Size of Sample Aliquot (mL):** 50.0  
**Sample Reading (FAU):** 29

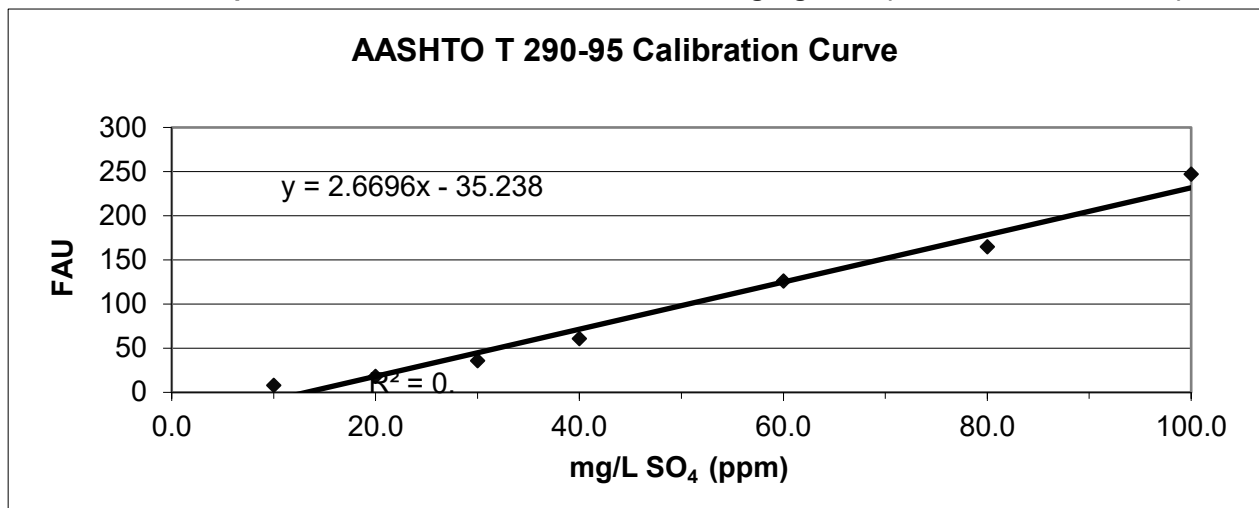
**Sample Diluted:** No

**Sulfate Solution Added (ml):** 0

### Sample Moisture Content

**Tare Number:** 888  
**Weight of Tare & Wet Sample (g):** 230.46  
**Weight of Tare & Dry Sample (g):** 230.18  
**Weight of Tare (g):** 110.05  
**Weight of Water (g):** 0.28  
**Weight of Dry Sample (g):** 120.13  
**Moisture Content (%):** 0.23

<b>Sample Sulfate Ion Concentration:</b>	24.06	<b>mg/L SO<sub>4</sub> (ppm)</b>
<b>Sample Sulfate Ion Content:</b>	72.2	<b>mg/Kg SO<sub>4</sub> (not corrected for moisture)</b>
<b>Sample Sulfate Ion Content:</b>	72.4	<b>mg/Kg SO<sub>4</sub> (corrected for moisture)</b>



Tested by: JAM      Date: 5/9/23      Checked by: TWV      Date: 5/10/2023



May 12, 2023

Project No. 2023-294-002

Ms. Hannah Kloiber  
CME Associates, Inc.  
6035 Corporate Drive  
East Syracuse, NY 13057

**Transmittal**  
**Laboratory Test Results**  
**28062**

Please find attached the laboratory test results for the above referenced project. The tests were outlined on the Project Verification Form that was transmitted to your firm prior to the testing. The testing was performed in general accordance with the methods listed on the enclosed data sheets. The test results are believed to be representative of the samples that were submitted for testing and are indicative only of the specimens that were evaluated. We have no direct knowledge of the origin of the samples and imply no position with regard to the nature of the test results, i.e. pass/fail and no claims as to the suitability of the material for its intended use.

The test data and all associated project information provided shall be held in strict confidence and disclosed to other parties only with authorization by our Client. The test data submitted herein is considered integral with this report and is not to be reproduced except in whole and only with the authorization of the Client and Geotechnics. The remaining sample materials for this project will be retained for a minimum of 90 days as directed by the Geotechnics' Quality Program.

We are pleased to provide these testing services. Should you have any questions or if we may be of further assistance, please contact our office.

Respectfully submitted,  
**Geotechnics, Inc.**

Nathan Melaro  
Director of Operations

***We understand that you have a choice in your laboratory services  
and we thank you for choosing Geotechnics.***



**CHLORIDE ION CONTENT IN SOILS**  
AASHTO T 291 - 94 (2018) (Method B)

Client: CME Associates, Inc.  
Client Reference: 28062  
Project No.: 2023-294-002  
Lab ID: 2023-294-002-001

Boring No.: B-138  
Depth (ft): 2.0-4.0'  
Sample No.: B-138  
Description: Brow Soil  
( - # 10 Sieve material )

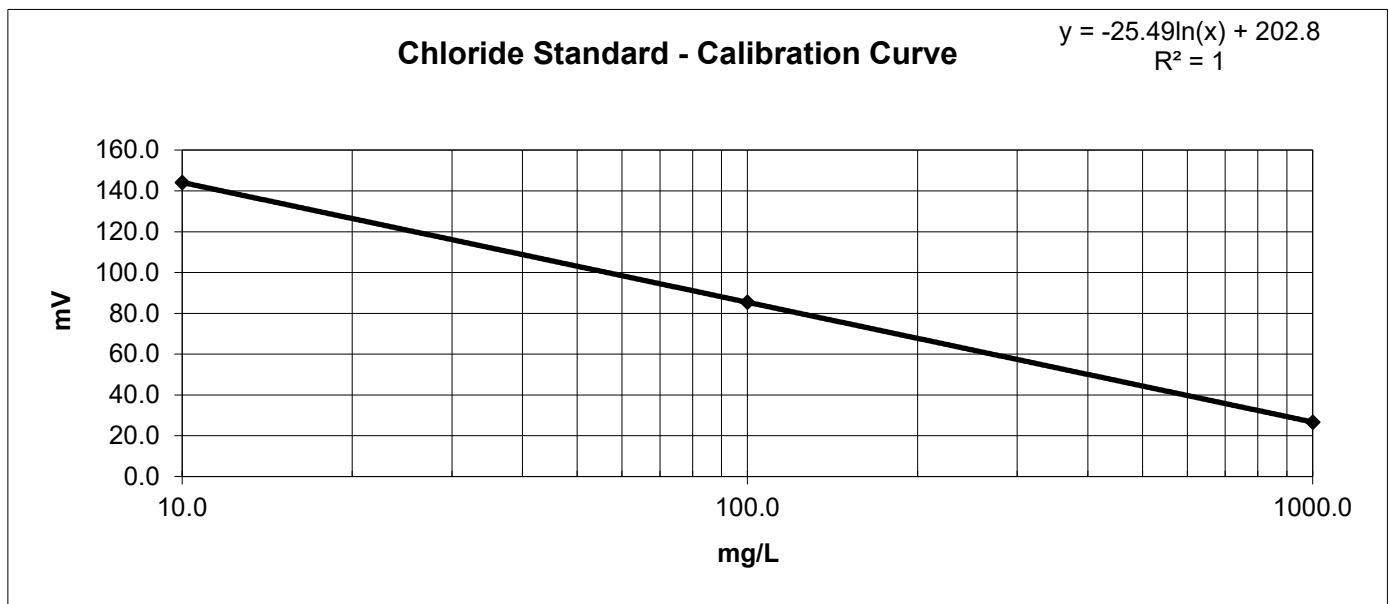
**CHLORIDE STANDARD: CALIBRATION CURVE**

STANDARD	MILLIVOLTS (mV)
10.0 mg/L	144.1
100.0 mg/L	85.4
1000.0 mg/L	26.7

**MEASUREMENT OF CHLORIDES**

Sample Weight (g):	<u>100.0</u>	CONCENTRATION	CONCENTRATION
Water added to Sample (ml):	<u>100.0</u>	(mg/L)	(mg/kg)
Size of Sample Aliquot (ml):	<u>25.0</u>		
Sample Reading (mV):	<u>161.5</u>	5.05	5.05

Notes: 1) Samples and standards were buffered by the addition of an equal volume of the 0.2 M KNO<sub>3</sub> solution (1:1 volume).  
2) Samples were dried for a minimum of 12 hours at 110 ± 5°C.



Notes:

Tested By JAM Date 5/10/23 Checked By BRB Date 5/12/23

## Water-Soluble Sulfate Ion Content in Soil AASHTO T 290-95 (2020)

Client:	CME Associates, Inc.	Boring No.: B-138
Client Reference:	28062	Depth (ft): 2.0-4.0'
Project No.:	2023-294-002	Sample No.: B-138
Lab ID:	2023-294-002-001	Soil Description: Brown Soil

### Sulfate Standard - Calibration Curve Spectrophotometer Readings

<u>Sulfate Ion Concentrations (mg/L)</u>									
0.0	4.0	10.0	20.0	30.0	40.0	60.0	80.0	100.0	
<u>Spectrophotometer Readings (FAU)</u>									
Underrange	Underrange	7	22	39	65	112	173	225	

### Measurement of Barium Chloride Turbidity

(Sample contains 5.0 mL NaCl solution and 0.3 g BaCl<sub>2</sub>·2H<sub>2</sub>O)

**Sample Weight (g):** 100.0  
**Water added to Sample (mL):** 300.0  
**Size of Sample Aliquot (mL):** 50.0  
**Sample Reading (FAU):** 15

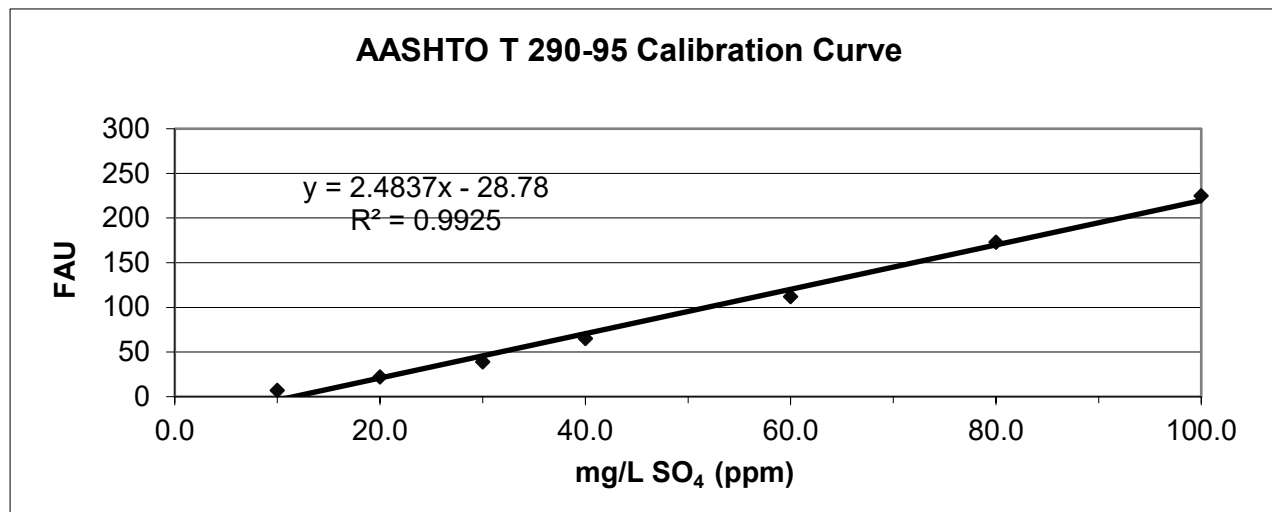
**Sample Diluted:** No

**Sulfate Solution Added (ml):** 0

### Sample Moisture Content

**Tare Number:** 578  
**Weight of Tare & Wet Sample (g):** 222.23  
**Weight of Tare & Dry Sample (g):** 219.95  
**Weight of Tare (g):** 83.79  
**Weight of Water (g):** 2.28  
**Weight of Dry Sample (g):** 136.16  
**Moisture Content (%):** 1.67

<b>Sample Sulfate Ion Concentration:</b>	17.63	<b>mg/L SO<sub>4</sub> (ppm)</b>
<b>Sample Sulfate Ion Content:</b>	52.9	<b>mg/Kg SO<sub>4</sub> (not corrected for moisture)</b>
<b>Sample Sulfate Ion Content:</b>	53.8	<b>mg/Kg SO<sub>4</sub> (corrected for moisture)</b>



Tested by: JAM      Date: 5/10/23      Checked by: BRB      Date: 5/12/2023

**CHLORIDE ION CONTENT IN SOILS**  
AASHTO T 291 - 94 (2018) (Method B)

Client: CME Associates, Inc.  
Client Reference: 28062  
Project No.: 2023-294-002  
Lab ID: 2023-294-002-002

Boring No.: B-138  
Depth (ft): 4.0-6.0'  
Sample No.: B-138  
Description: Brow Soil  
( - # 10 Sieve material )

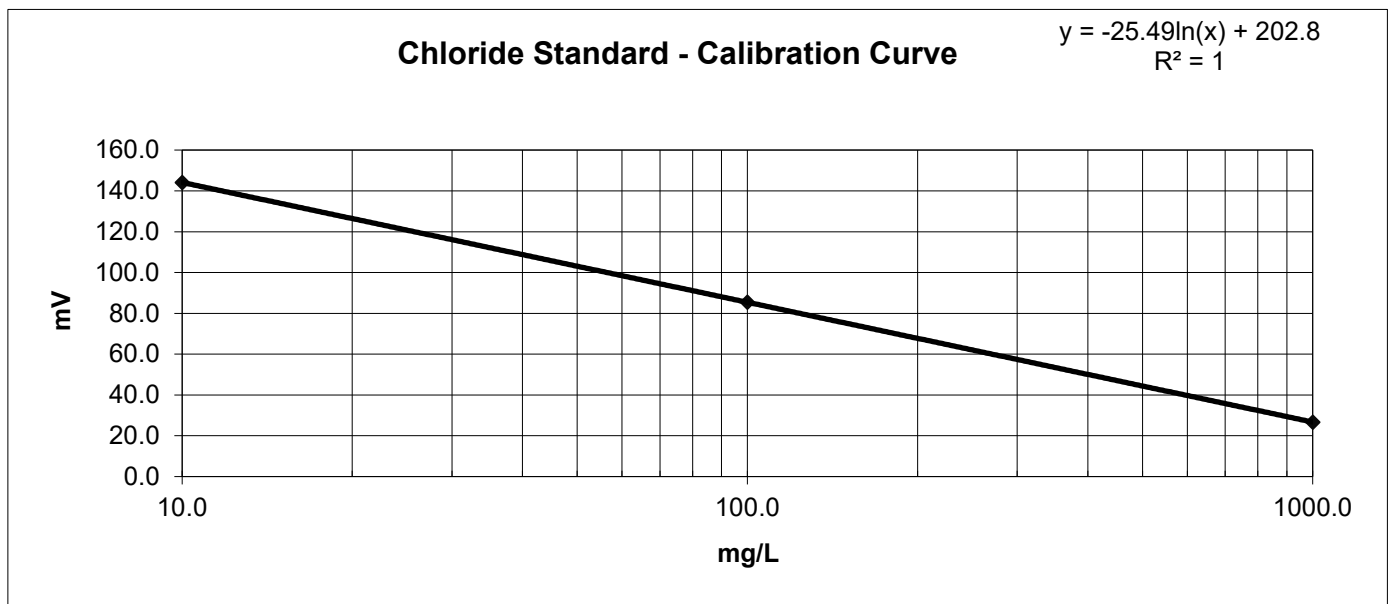
**CHLORIDE STANDARD: CALIBRATION CURVE**

STANDARD	MILLIVOLTS (mV)
10.0 mg/L	144.1
100.0 mg/L	85.4
1000.0 mg/L	26.7

**MEASUREMENT OF CHLORIDES**

Sample Weight (g):	<u>100.0</u>	CONCENTRATION	CONCENTRATION
Water added to Sample (ml):	<u>100.0</u>	(mg/L)	(mg/kg)
Size of Sample Aliquot (ml):	<u>25.0</u>		
Sample Reading (mV):	<u>152.5</u>	7.19	7.19

Notes: 1) Samples and standards were buffered by the addition of an equal volume of the 0.2 M KNO<sub>3</sub> solution (1:1 volume).  
2) Samples were dried for a minimum of 12 hours at 110 ± 5°C.



Notes:

Tested By JAM Date 5/10/23 Checked By BRB Date 5/12/23

## Water-Soluble Sulfate Ion Content in Soil AASHTO T 290-95 (2020)

Client:	CME Associates, Inc.	Boring No.: B-138
Client Reference:	28062	Depth (ft): 4.0-6.0'
Project No.:	2023-294-002	Sample No.: B-138
Lab ID:	2023-294-002-002	Soil Description: Brown Soil

### Sulfate Standard - Calibration Curve Spectrophotometer Readings

<u>Sulfate Ion Concentrations (mg/L)</u>									
0.0	4.0	10.0	20.0	30.0	40.0	60.0	80.0	100.0	
<u>Spectrophotometer Readings (FAU)</u>									
Underrange	Underrange	7	22	39	65	112	173	225	

### Measurement of Barium Chloride Turbidity

(Sample contains 5.0 mL NaCl solution and 0.3 g BaCl<sub>2</sub>·2H<sub>2</sub>O)

**Sample Weight (g):** 100.0  
**Water added to Sample (mL):** 300.0  
**Size of Sample Aliquot (mL):** 50.0  
**Sample Reading (FAU):** 19

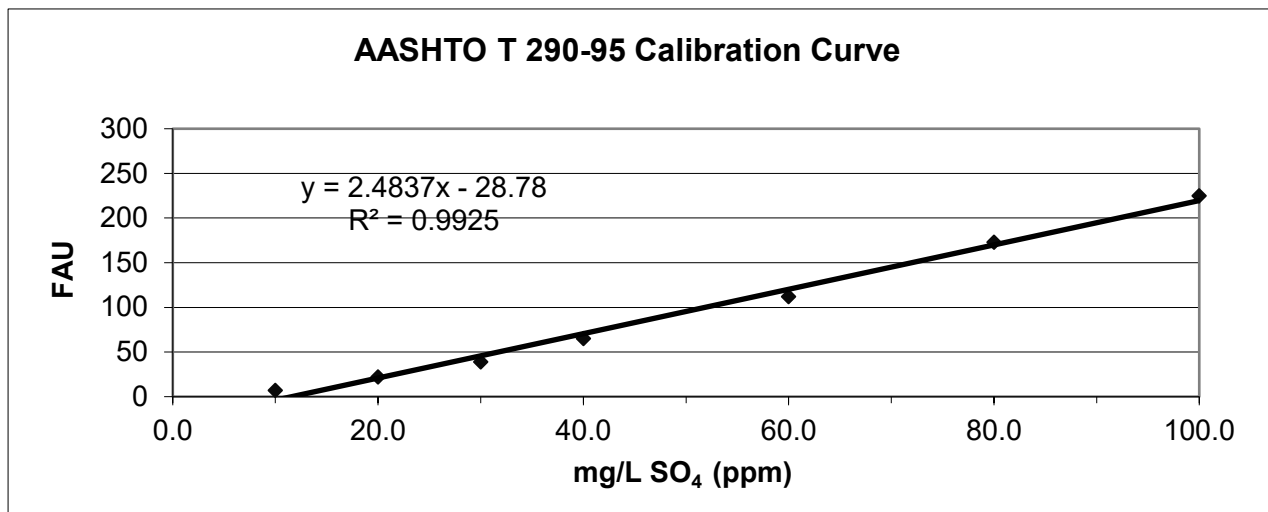
**Sample Diluted:** No

**Sulfate Solution Added (ml):** 0

### Sample Moisture Content

**Tare Number:** 542  
**Weight of Tare & Wet Sample (g):** 227.29  
**Weight of Tare & Dry Sample (g):** 224.51  
**Weight of Tare (g):** 81.62  
**Weight of Water (g):** 2.78  
**Weight of Dry Sample (g):** 142.89  
**Moisture Content (%):** 1.95

<b>Sample Sulfate Ion Concentration:</b>	19.24	<b>mg/L SO<sub>4</sub> (ppm)</b>
<b>Sample Sulfate Ion Content:</b>	57.7	<b>mg/Kg SO<sub>4</sub> (not corrected for moisture)</b>
<b>Sample Sulfate Ion Content:</b>	58.9	<b>mg/Kg SO<sub>4</sub> (corrected for moisture)</b>



Tested by: JAM      Date: 5/10/23      Checked by: BRB      Date: 5/12/2023



B-227; R-1 Before Compression (24.3' - 24.7')



B-227; R-1 After Compression (24.3' - 24.7')



B-41; R-1A Before Compression (4.3' - 4.9')



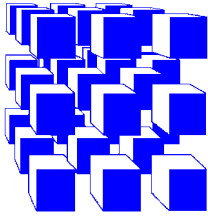
B-41; R-1A After Compression (4.3' - 4.9')



B-41; R-1B Before Compression (7.0' – 7.6')



B-41; R-1B After Compression (7.0' – 7.6')



**LABORATORY TEST SUMMARY**

**Micron Campus, Clay, NY**

**Ramboll**

**CME Report No.: 28062L-02-0623**

**June 2, 2023**

**Page 1 of 3**

CME Representatives obtained soil samples from Test Borings advanced as part of the Subsurface Exploration Program conducted for the subject project. Selected samples were delivered to CME's East Syracuse facility, an AASHTO re:source<sup>1</sup> accredited laboratory for various laboratory testing. The results are presented below:

Sample ID Notations: B - Test Boring, S - Sample

**I. Natural Moisture Content (ASTM D2216)**

Sample ID	Natural Moisture (%)
B-299A; S-1A	42.5
B-299A; S-1B	24.6
B-299A; S-2	30.7
B-299A; S-3	24.9
B-299A; S-4	21.3
B-299A; S-5	22.5
B-299A; S-6	23.0
B-299A; S-7	27.0
B-299A; S-8	27.9
B-299A; S-9	11.7
B-299A; S-10	13.0
B-299A; S-11	1.4

**II. Atterberg Limits Testing (ASTM D4318)**

Sample ID	Liquid Limit	Plastic Limit	Plasticity Index	Natural Moisture (%)
B-299A; S-2	28	19	9	30.7
B-299A; S-7	20	15	5	27.0
B-299A; S-8	30	17	13	27.9

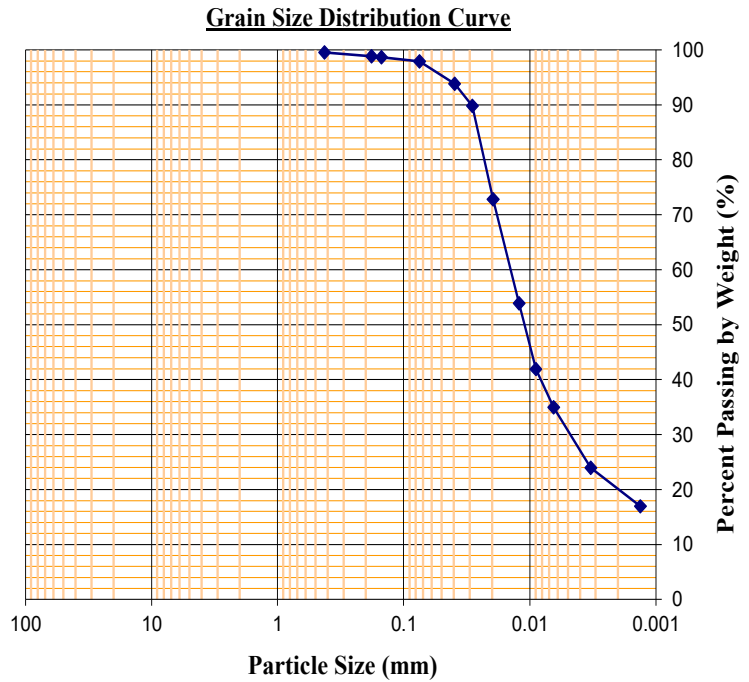
<sup>1</sup>AASHTO re:source – American Association of State Highway & Transportation Officials (AASHTO) Materials Reference Laboratory, a Federal Agency having jurisdiction to assess laboratory competency according to the Standards of the United States of America. CME East Syracuse accreditation includes testing of Portland Cement Concrete, Aggregate and Soil Materials. [www.AASHTOresource.org](http://www.AASHTOresource.org).

**III. Particle Size Analysis (ASTM D422)**

Sample #  
 B-299A; S-2

Classification  
 Brown SILT, some CLAY, trace fine SAND

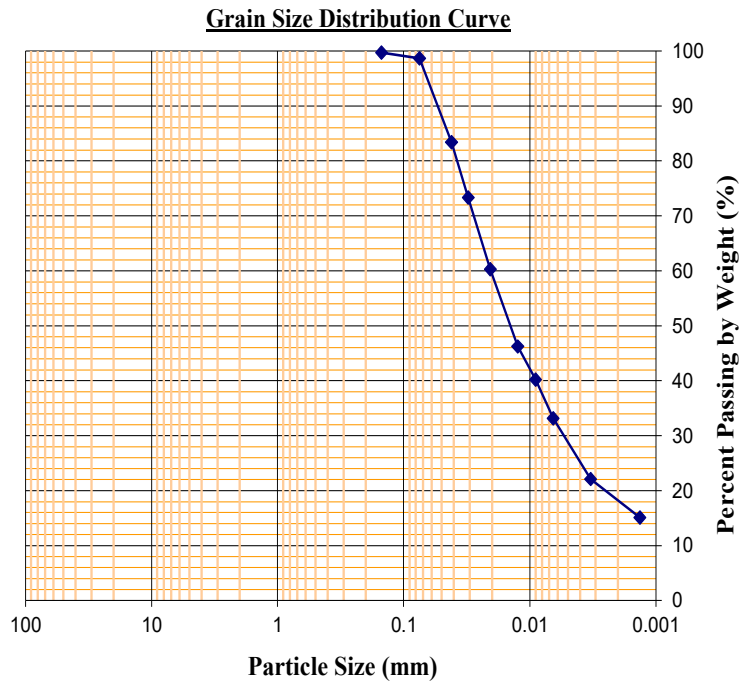
<u>Sieve Designation</u>	<u>Sieve Size (mm)</u>	<u>Percent Passing by Weight (%)</u>
No.40	0.425	100
No.80	0.180	99
No.100	0.150	99
No.200	0.075	98
Hydrometer	0.040	94
	0.029	90
	0.020	73
	0.012	54
	0.009	42
	0.006	35
	0.003	24
	0.001	17



Sample #  
 B-299A; S-7

Classification  
 Grey SILT, some CLAY, trace fine SAND

<u>Sieve Designation</u>	<u>Sieve Size (mm)</u>	<u>Percent Passing by Weight (%)</u>
No.100	0.150	100
No.200	0.075	99
Hydrometer	0.042	83
	0.031	73
	0.021	60
	0.012	46
	0.009	40
	0.007	33
	0.003	22
	0.001	15

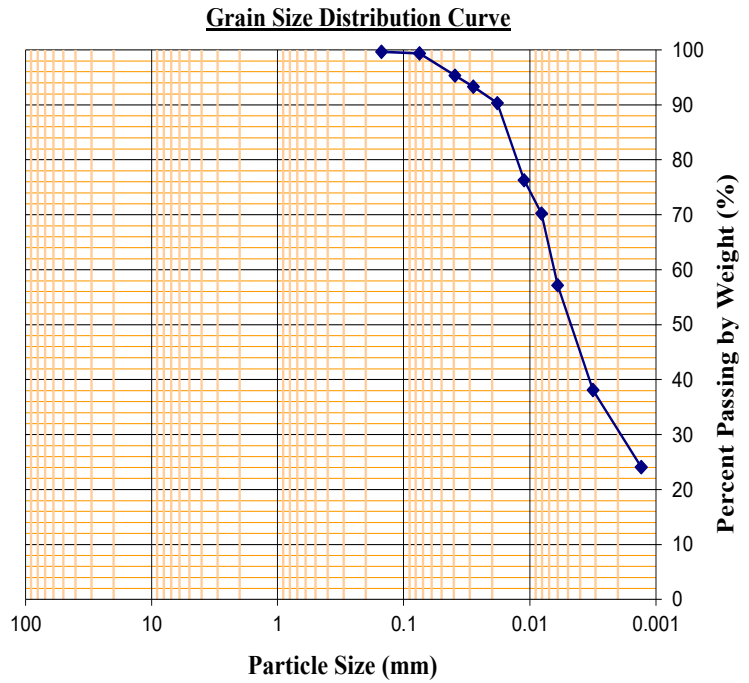




**Sample #**  
 B-299A; S-8

**Classification**  
 Grey CLAY and SILT, trace fine SAND

<u>Sieve Designation</u>	<u>Sieve Size (mm)</u>	<u>Percent Passing by Weight (%)</u>
No.100	0.150	100
No.200	0.075	99
Hydrometer	0.039	95
	0.028	93
	0.018	90
	0.011	76
	0.008	70
	0.006	57
	0.003	38
	0.001	24



If you have any questions regarding this report, please contact our office.



Anas N. Anasthas, P.E. for

Hannah Kloiber  
 Laboratory Supervisor



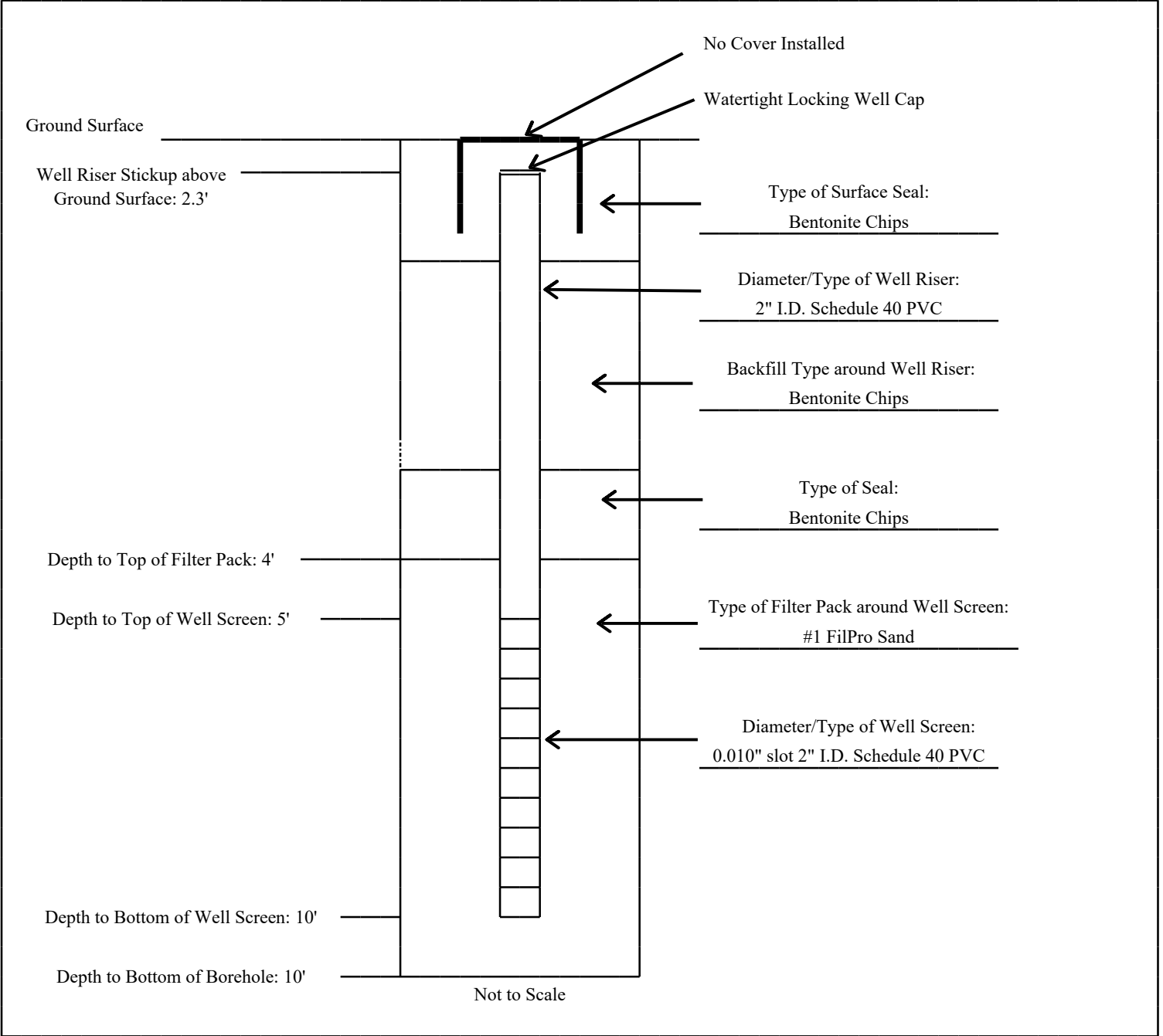
6035 Corporate Drive  
 East Syracuse, NY 13057  
 Phone: 315-701-0522

**MONITORING WELL LOG**

**Well No.** W-1

**Boring No.** B-129

<b>Project Name:</b>	Micron Campus, Clay, New York	<b>Report No.</b>	28062B-01-0523R1
<b>Client:</b>	Ramboll	<b>Installation Date</b>	4/17/2023
<b>Location:</b>	See Exploration Location Plan	<b>Surface Elevation</b>	418.8'
<b>Driller:</b>	Beau Fletcher	<b>Driller:</b>	Ryan Casatelli
		<b>Inspector:</b>	N/A



**Remarks:**

1. See Test Boring Log B-129 for soil information.



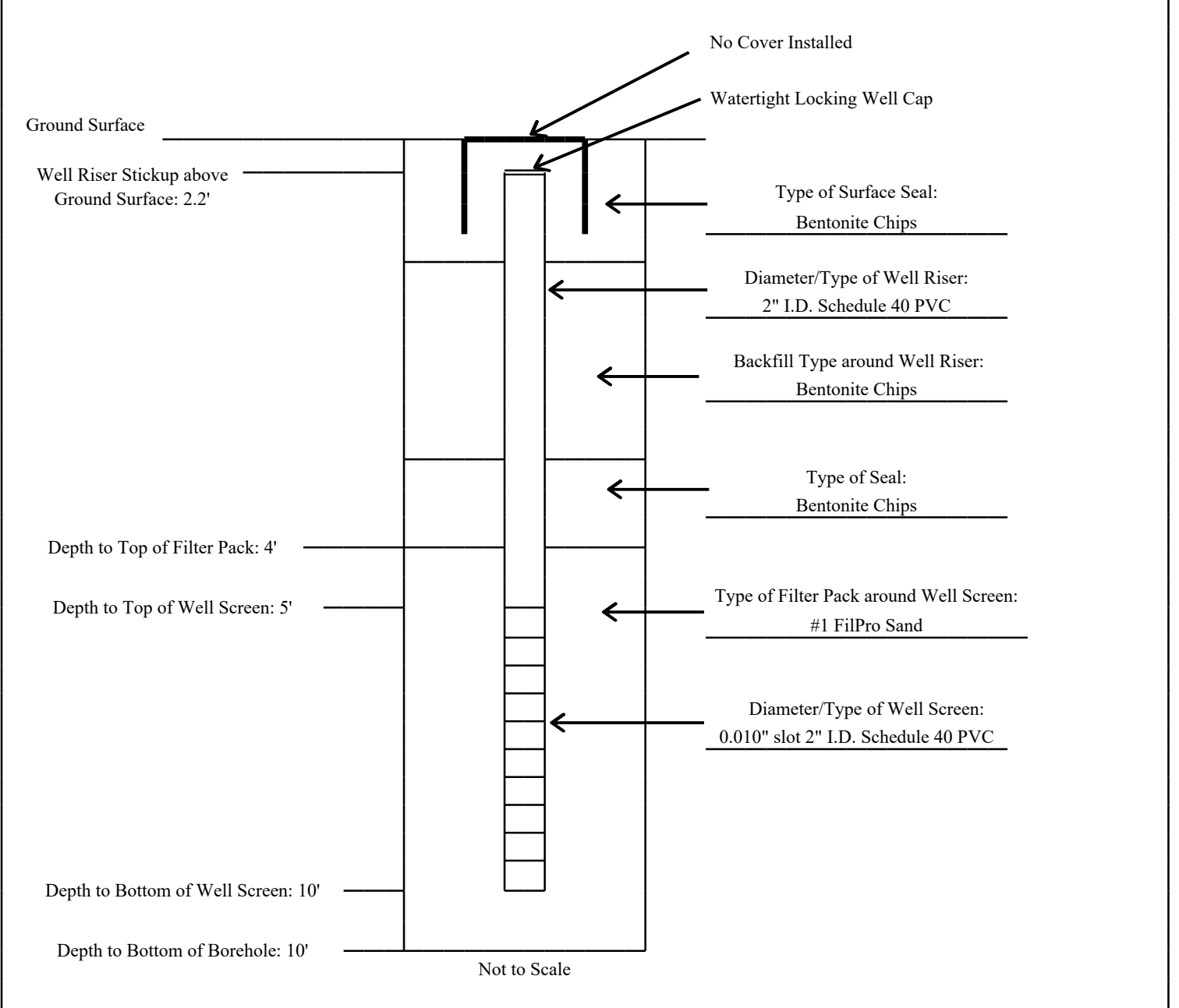
6035 Corporate Drive  
 East Syracuse, NY 13057  
 Phone: 315-701-0522

**MONITORING WELL LOG**

**Well No.** W-2

**Boring No.** B-24

<b>Project Name:</b>	Micron Campus, Clay, New York	<b>Report No.</b>	28062B-01-0523R1
<b>Client:</b>	Ramboll	<b>Installation Date</b>	4/17/2023
<b>Location:</b>	See Exploration Location Plan	<b>Surface Elevation</b>	394.6'
		<b>Riser Elevation</b>	N/A
<b>Driller:</b>	Beau Fletcher	<b>Driller:</b>	Ryan Casatelli
		<b>Inspector:</b>	A. Anasthas, PE



**Remarks:**

1. See Test Boring Log B-24 for soil information.



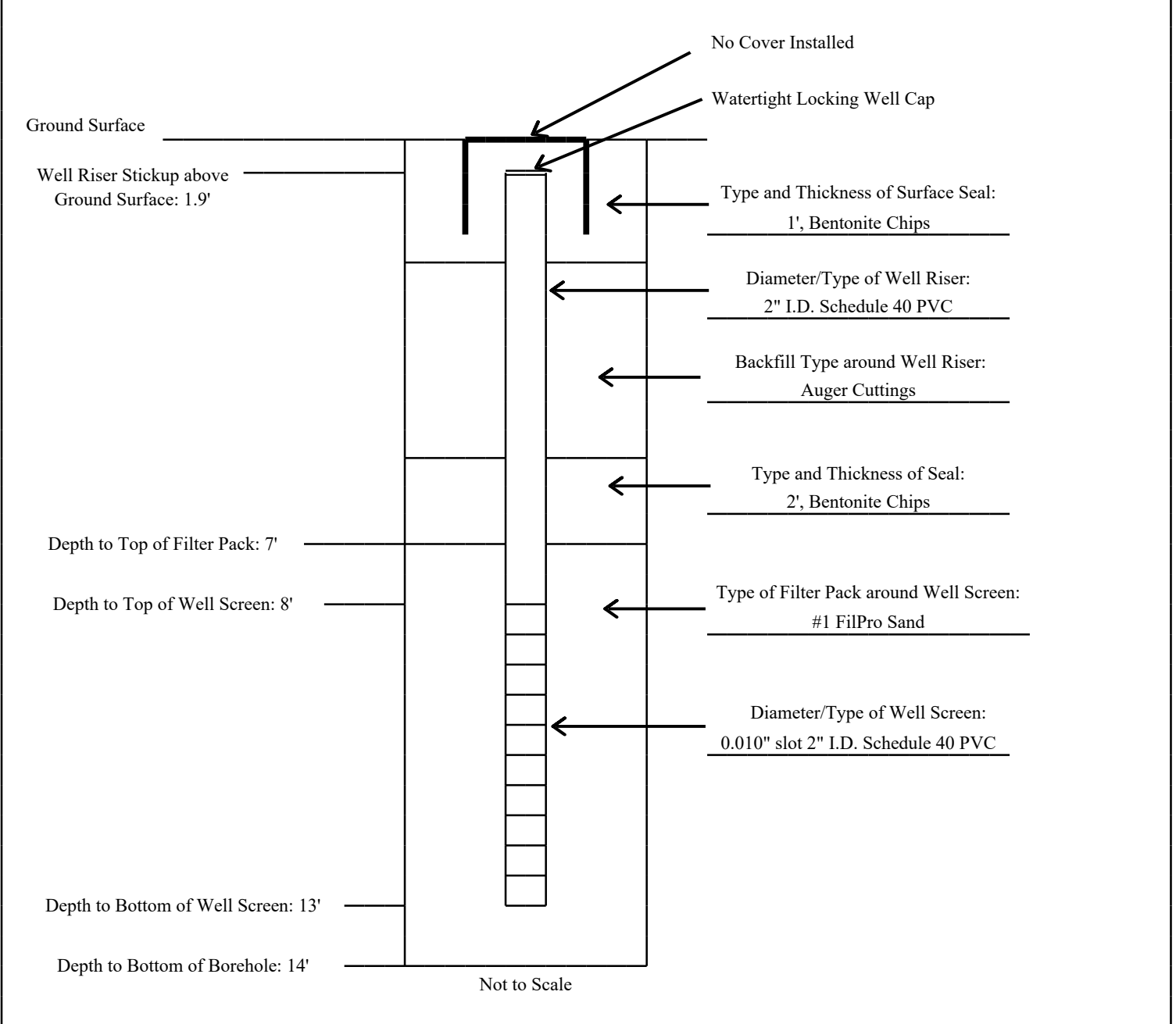
6035 Corporate Drive  
 East Syracuse, NY 13057  
 Phone: 315-701-0522

**MONITORING WELL LOG**

**Well No.** W-3


**Boring No.** B-227

<b>Project Name:</b>	Micron Campus, Clay, New York	<b>Report No.</b>	28062B-01-0523R1
<b>Client:</b>	Ramboll	<b>Installation Date</b>	4/17/2023
<b>Location:</b>	See Exploration Location Plan	<b>Surface Elevation</b>	389.3'
		<b>Riser Elevation</b>	N/A
<b>Driller:</b>	Beau Fletcher	<b>Driller:</b>	Ryan Casatelli
		<b>Inspector:</b>	N/A



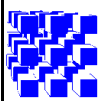
**Remarks:**

1. See Test Boring Log B-227 for soil information.

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>		<b>B-1</b>	
						<b>Page No.</b>		1 of 2	
						<b>Report No.</b>		28062B-01-0523-R1	
<b>Project Name:</b>		Micron Campus, Clay, New York				<b>Date Started</b>		05/08/23	
<b>Client:</b>		Ramboll				<b>Date Finished</b>		05/08/23	
<b>Location:</b>		See Exploration Location Plan				<b>Surface Elev.</b>		392.7'	
<b>METHODS OF INVESTIGATION</b>						<b>GROUNDWATER OBSERVATIONS</b>			
<b>Driller:</b>		B. Fletcher		<b>Casing:</b>		3 1/4" ID H.S.A.		<b>Date</b>	
<b>Driller:</b>		R. Casatelli		<b>Casing Hammer:</b>				<b>Time</b>	
<b>Inspector:</b>				<b>Other:</b>				<b>Depth (Ft.)</b>	
<b>Drill Rig:</b>		CME 55		<b>Soil Sampler:</b>		2" OD Split Barrel		<b>Casing At (Ft.)</b>	
<b>Type:</b>		ATV		<b>Hammer Wt:</b>		140 lbs.		05/08/23	
<b>Rod Size:</b>		AWJ		<b>Hammer Fall:</b>		30 in.		While Drilling	
								none noted	
								23.5	
								8.9	
								1.4	
								caved @ 3.6	
								out	
								out	
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse		SPT "N" or RQD %
		From	To				m - medium	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
0	1A	0.0	0.5	SS/14	WH-1-3-2		Topsoil and Organic Matter (wet)		4
1	1B	1.0	2.0				Light Brown/Grey SILT, trace CLAY, little fine SAND (moist, medium stiff)		
2	2	2.0	4.0	SS/16	3-3-4-3		Light Brown/Grey SILT, little CLAY, trace fine SAND (wet, medium stiff)		7
3									
4	3	4.0	6.0	SS/22	2-2-2-4		Light Brown/Grey SILT, little cmf SAND, trace CLAY (wet, medium stiff)		4
5									
6	4	6.0	8.0	SS/18	5-7-7-10		Light Brown SILT, trace fine SAND (wet, stiff)		14
7									
8	5	8.0	10.0	SS/17	4-8-10-12		Light Brown SILT, trace fine SAND (wet, very stiff)		18
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/18	5-6-4		Light Brown SILT, trace fine SAND (wet, stiff)		10
15									
16									
17									
18									
19	7	18.5	20.0	SS/14	WH-WH-WH		Grey SILT, little cmf SAND, trace fine GRAVEL (wet, very soft)		0
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
Associates, Inc.

6035 Corporate Drive  
East Syracuse, NY 13057  
Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-1</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1

**LOG OF BORING SAMPLES**


**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.5	23.9	SS/4	100/4"				100+
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

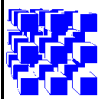
**Remarks:**

-----  
Grey SILT (wet)  
*Weathered ROCK fragments noted*  
*Auger refusal at 24.0'*  
Bottom of Boring at 24'

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> B-3		<b>Page No.</b> 1 of 2			
<b>Project Name:</b> Micron Campus, Clay, New York						<b>Report No.</b> 28062B-01-0523-R1		<b>Date Started</b> 05/08/23			
<b>Client:</b> Ramboll						<b>Date Finished</b> 05/08/23		<b>Surface Elev.</b> 393'			
<b>Location:</b> See Exploration Location Plan											
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b> B. Fletcher <b>Driller:</b> R. Casatelli <b>Inspector:</b> <b>Drill Rig:</b> CME 55 <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>	
				05/08/23		While Drilling		none noted		26.0	
				05/08/23		Before Casing Removed		10.3		26	
				05/08/23		After Casing Removed		none noted		out	
				05/08/23		After Casing Removed		caved @ 4.8		out	
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse m - medium f - fine</b>		<b>and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%</b>		<b>SPT "N" or RQD %</b>
0	1A	0.0	1.0	SS/20	WH-WH-4-4		Topsoil and Organic Matter (wet)				4
1	1B	1.0	2.0				Light Brown Grey SILT, little CLAY, trace fine SAND (wet, medium stiff)				
2	2	2.0	4.0	SS/16	4-4-3-3		Light Brown Grey SILT, trace CLAY, trace fine SAND (wet, medium stiff)				7
3											
4	3	4.0	6.0	SS/24	4-3-4-8		Light Brown SILT, trace fine SAND (wet, medium stiff)				7
5											
6	4	6.0	8.0	SS/18	5-6-6-9		Similar as above (wet, stiff)				12
7											
8	5	8.0	10.0	SS/20	5-7-8-8		Similar as above (wet, very stiff)				15
9											
10											
11											
12											
13											
14	6	13.5	15.0	SS/13	WH-2-1		Grey/Brown SILT, trace CLAY, trace fine SAND (wet, soft)				3
15											
16											
17											
18											
19	7	18.5	20.0	SS/16	3-4-9		Grey SILT, some cmf SAND, trace mf GRAVEL (wet, stiff)				13
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
Associates, Inc.

6035 Corporate Drive  
East Syracuse, NY 13057  
Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-3</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1

**LOG OF BORING SAMPLES**


**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20									
21									
22									
23	8	23.5	25.0	SS/8	8-10-2-3				12
24									
25	9	26.0	26.0	SS/0	100/0"				100+
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>		<b>B-5</b>	
						Page No.		1 of 2	
						Report No.		28062B-01-0523-R1	
<b>Project Name:</b>		Micron Campus, Clay, New York				<b>Date Started</b>		05/08/23	
<b>Client:</b>		Ramboll				<b>Date Finished</b>		05/08/23	
<b>Location:</b>		See Exploration Location Plan				<b>Surface Elev.</b>		392.7'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>		B. Fletcher		<b>Casing:</b>		3 1/4" ID H.S.A.		<b>Date</b>	
<b>Driller:</b>		R. Casatelli		<b>Casing Hammer:</b>				<b>Time</b>	
<b>Inspector:</b>				<b>Other:</b>				<b>Depth (Ft.)</b>	
<b>Drill Rig:</b>		CME 55		<b>Soil Sampler:</b>		2" OD Split Barrel		<b>Casing At (Ft.)</b>	
<b>Type:</b>		ATV		<b>Hammer Wt:</b>		140 lbs.		05/08/23	
<b>Rod Size:</b>		AWJ		<b>Hammer Fall:</b>		30 in.		While Drilling	
								14.3	
								24.7	
								2.2	
								none noted	
								out	
								caved @ 3.5	
								out	
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse		SPT "N" or RQD %
		From	To				m - medium	and - 35 to 50% / some - 20 to 35%	
							f - fine	little - 10 to 20% / trace - 0 to 10%	
0	1A	0.0	1.0	SS/18	WH-2-4-4		Topsoil and Organic Matter (wet)		6
1	1B	1.0	2.0				Brown/Grey SILT, little CLAY, trace fine SAND, trace ROOTS (wet, medium stiff)		
2	2	2.0	4.0	SS/20	3-4-5-4		Light Brown SILT, trace fine SAND (wet, stiff)		9
3									
4	3	4.0	6.0	SS/24	4-4-6-8		Similar as above (wet, stiff)		10
5									
6	4	6.0	8.0	SS/17	6-7-8-7		Similar as above (wet, very stiff)		15
7									
8	5	8.0	10.0	SS/17	4-7-6-11		Similar as above (wet, stiff)		13
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/16	6-7-5		Grey SILT, trace fine SAND (wet, stiff)		12
15									
16									
17									
18									
19	7	18.5	20.0	SS/17	3-3-5		Similar as above (wet, stiff)		8
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-5</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %		
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%			
20	8	23.5	24.7	SS/10	8-10-100/3"				100+		
21											
22											
23											
24										Grey cmf GRAVEL, trace SILT (wet, very compact) <i>ROCK fragments noted</i>	
25										<i>Auger Refusal at 24.7</i>	
26										Bottom of Boring at 24.7'	
27											
28											
29											
30											
31											
32											
33											
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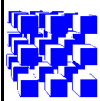
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-7	<b>Page No.</b> 1 of 2	
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll		<b>Location:</b> See Exploration Location Plan		<b>Report No.</b> 28062B-01-0523-R1	<b>Date Started</b> 05/09/23	<b>Date Finished</b> 05/09/23	<b>Surface Elev.</b> 391.2'
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher <b>Driller:</b> R. Casatelli <b>Inspector:</b> <b>Drill Rig:</b> CME 55 <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				05/09/23	While Drilling	7.5	18.5		
				05/09/23	Before Casing Removed	6.0	20.6		
				05/09/23	After Casing Removed	none noted	out		
				05/09/23	After Casing Removed				
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse m - medium f - fine</b>		<b>SPT "N" or RQD %</b>
0	1	0.0	2.0	SS/14	WH-WH-1-4		Brown Grey SILT, trace CLAY, trace fine SAND, trace ROOTS Materials (moist, very soft)		1
1									
2	2	2.0	4.0	SS/20	4-4-3-3		Light Brown/Grey SILT, little fine SAND, trace CLAY (moist medium stiff)		7
3									
4	3	4.0	6.0	SS/23	3-3-3-3		Light Brown SILT, trace fine SAND (wet, medium stiff)		6
5									
6	4	6.0	8.0	SS/16	3-2-2-5		Similar as above (wet, medium stiff)		4
7									
8	5	8.0	10.0	SS/18	3-4-6-7		Similar as above (wet, stiff)		10
9									
10									
11									
12									
13									
14	6	13.5	13.7	SS/3	100/3"		Light Brown SILT, trace cmf SAND, trace fine GRAVEL (moist, hard)		100+
15									
16									
17									
18									
19	7	18.5	20.0	SS/12	19-14-10-13		Light Brown/Grey SILT, some cmf GRAVEL, some fine SAND (wet, very stiff) <i>ROCK fragments noted</i>		24
20	8	20.5	20.6	SS/1	100/1"		Grey Weathered ROCK fragments (wet)		100+

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-7</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20							<i>Refusal at 20.6'</i>		
21							Bottom of Boring at 20.6		
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
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45									

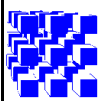
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-20	<b>Page No.</b> 1 of 2	
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll		<b>Location:</b> See Exploration Location Plan		<b>Report No.</b> 28062B-01-0523-R1	<b>Date Started</b> 04/19/23	<b>Date Finished</b> 04/19/23	<b>Surface Elev.</b> 392.4'
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> G. Richard <b>Driller:</b> C. O'Hara <b>Inspector:</b> A. Sharma, E.I.T. <b>Drill Rig:</b> CME 55 <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				04/19/23	While Drilling	none noted	none noted		
				04/19/23	Before Casing Removed	10.1	26.6		
				04/19/23	After Casing Removed	9.0	out		
				04/19/23	After Casing Removed	caved @ 4.5'	out		
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse</b> <b>m - medium</b> <b>f - fine</b>	<b>and - 35 to 50% / some - 20 to 35%</b> <b>little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1A	0.0	0.6	SS/22	WH-1-2-3		Topsoil and Organic Matter (wet)		
1	1B	0.6	2.0				Brown Mottled SILT, trace CLAY, trace fine SAND (moist, soft)		3
2	2	2.0	4.0	SS/18	3-3-6-6		Brown SILT, trace CLAY (moist, stiff) PP=1.5, 1.5, 2.0		9
3									
4	3A	4.0	5.0	SS/24	3-4-5-5		Dark Grey cmf SAND, some SILT, trace fine GRAVEL, trace ROOTS (wet, loose)		9
5	3B	5.0	6.0				Brown SILT, trace CLAY, trace mf SAND, trace fine GRAVEL (moist, stiff)		
6	4	6.0	8.0	SS/24	4-5-6-10		Brown SILT, trace CLAY (moist, stiff) PP=2.5, 2.25, 2.25		11
7									
8	5	8.0	10.0	SS/24	4-6-6-9		Similar as above (moist, stiff)		12
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/18	7-11-8		Similar as above (moist, very stiff)		19
15									
16									
17									
18									
19	7	18.5	20.0	SS/14	3-3-4		Grey SILT, trace CLAY (wet, medium stiff)		7
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod  
 PP=Pocket Penetrameter Results in tsf

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-20</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20									
21									
22									
23	8	23.5	25.0	SS/18	13-12-18	-----	Dark Grey ROCK chips & fragments, trace SILT (wet)		30
24									
25	9	26.5	26.7		100/1"		Grey ROCK chips & fragments (wet) Bottom of Boring at 26.7'		100+
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

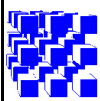
**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-23					
				<b>Page No.</b> 1 of 2					
				<b>Report No.</b> 28062B-01-0523-R1					
<b>Project Name:</b>	Micron Campus, Clay, New York			<b>Date Started</b> 04/19/23					
<b>Client:</b>	Ramboll			<b>Date Finished</b> 04/19/23					
<b>Location:</b>	See Exploration Location Plan			<b>Surface Elev.</b> 387.3'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	G. Richard	<b>Casing:</b>	3 1/4" ID H.S.A.						
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>	<b>Date</b>	<b>Time</b>					
<b>Inspector:</b>	A. Sharma, E.I.T.	<b>Other:</b>	04/19/23	While Drilling					
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	04/19/23	Before Casing Removed					
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	04/19/23	After Casing Removed					
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	04/19/23	After Casing Removed					
				Depth (Ft.)					
				Casing At (Ft.)					
				4.6					
				18.5					
				4.2					
				20.2					
				4.2					
				out					
				caved @ 9.0					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/19	WH-1-2-3		Topsoil and Organic Material (wet)		3
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace ROOTS, trace WOOD (wet, soft)		
2	2	2.0	4.0	SS/16	7-6-5-6		Brown SILT, trace CLAY (wet, stiff)		11
3							PP=1.5, 1.5, 1.75		
4	3	4.0	6.0	SS/18	9-5-6-9		Dark Grey/Brown SILT and CLAY, trace Organic Materials (wet, stiff)		11
5							PP=0.75, 0.75, 1.0		
6	4	6.0	8.0	SS/24	6-9-9-10		Brown SILT, trace CLAY (wet, very stiff)		18
7							PP=2.25, 2.5, 2.0		
8	5	8.0	10.0	SS/20	6-5-4-6		Grey/Brown SILT, trace CLAY (wet, stiff)		9
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/18	1-1-3		Grey/Brown SILT, little mf SAND, trace CLAY (wet, medium stiff)		4
15									
16									
17									
18									
19	7	18.5	20.0	SS/13	3-14-9		Dark Grey SILT and cmf GRAVEL, trace cmf SAND, trace CLAY (wet, very stiff)		23
20							Augered Harder at 20.3'		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

PP=Pocket Penetrameter Results in tsf

**Remarks:**



**CME**  
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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-23</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1

**LOG OF BORING SAMPLES**


**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	20.6	20.7	SS/1	100/1"		Dark Grey ROCK fragments (wet)		100+
21							Bottom of Boring at 20.7'		
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
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38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

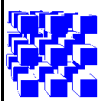


 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-24	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-01-0523-R1	
<b>Project Name:</b> Micron Campus, Clay, New York					<b>Date Started</b>	04/17/23		
<b>Client:</b> Ramboll					<b>Date Finished</b>	04/17/23		
<b>Location:</b> See Exploration Location Plan					<b>Surface Elev.</b>	394.6'		
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> G. Richard		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b> C. O'Hara		<b>Casing Hammer:</b>		04/17/23	While Drilling	9.7	13.5	
<b>Inspector:</b> A. Anasthas, P.E.		<b>Other:</b>		04/17/23	Before Casing Removed	8.2	22.7	
<b>Drill Rig:</b> CME 55		<b>Soil Sampler:</b> 2" OD Split Barrel		04/19/23	After Casing Removed	2.4	out	
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		04/19/23	After Casing Removed	caved @ 5.4	out	
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.						
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	c - coarse m - medium f - fine and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	<b>SPT "N" or RQD %</b>
0	1A	0.0	0.5	SS/15	WH-WH-1-3		Topsoil and Organic Matter (wet)	1
1	1B	0.5	2.0				Brown Mottled SILT and CLAY, trace mf SAND (moist, very soft)	
2	2	2.0	4.0	SS/20	2-3-4-4		Brown Mottled SILT, some CLAY, trace mf SAND (moist, medium stiff)	7
3								
4	3	4.0	6.0	SS/22	2-2-2-2		Brown Mottled SILT, some CLAY, trace fine SAND (wet, medium stiff) PP=1.25, 1.5, 1.75	4
5								
6	4	6.0	8.0	SS/24	2-4-2-4		Brown SILT, trace CLAY (wet, medium stiff) PP=1.25, 1.5, 1.75	6
7								
8	5	8.0	10.0	SS/24	3-6-10-11		Similar as above (wet, very stiff) PP=2.5, 2.0, 2.0	16
9								
10								
11								
12								
13	6A	13.5	14.6	SS/18	5-6-6-11		Brown SILT, trace CLAY, trace mf SAND (wet, stiff) PP=1.25, 1.5, 1.75	12
14	6B	14.6	15.0				Brown SILT, little cmf SAND, trace mf GRAVEL (wet, stiff)	
15								
16								
17								
18							Started to drill gravelly at 17.4' Started to drill harder at 18'	
19	7	18.5	18.8	SS/3	100/3"		Grey ROCK chips, fragments & flour, some SILT (wet)	100+
20								

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

PP=Pocket Penetrameter Results in tsf

**Remarks:**



**CME**  
Associates, Inc.

6035 Corporate Drive  
East Syracuse, NY 13057  
Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-24</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20									
21									
22	8	22.7	22.8	SS/1	100/1"		<i>Auger refusal at 22.7'</i> Grey ROCK chips, fragment & flour (wet) <i>Sampler refused at 22.8'</i>		100+
23							Bottom of Boring at 22.8'		
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



6035 Corporate Drive  
 East Syracuse, NY 13057  
 Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-25</b>
<b>Page No.</b>	1 of 1
<b>Report No.</b>	28062B-01-0523-R1
<b>Date Started</b>	04/18/23
<b>Date Finished</b>	04/18/23
<b>Surface Elev.</b>	393'


**Project Name:** Micron Campus, Clay, New York  
**Client:** Ramboll  
**Location:** See Exploration Location Plan

METHODS OF INVESTIGATION			GROUNDWATER OBSERVATIONS				
<b>Driller:</b>	G. Richard	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>		04/18/23	While Drilling	9.6	13.5
<b>Inspector:</b>	A. Sharma, E.I.T.	<b>Other:</b>		04/18/23	Before Casing Removed	6.1	18.5
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	2" OD Split Barrel	04/18/23	After Casing Removed	5.2	out
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	04/18/23	After Casing Removed		
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0		0.0	2.0	SS/15	WH-WH-2-3		Brown SILT, trace CLAY, trace ORGANIC Materials (moist, soft)		2
1							-----		
2	2	2.0	4.0	SS/20	3-3-4-5		Brown mottled SILT, trace CLAY (moist, medium stiff) <i>PP=1.75, 2.0, 2.25</i>		7
3									
4	3	4.0	6.0	SS/24	4-3-3-5		Brown SILT, little CLAY, trace ROOTS (wet, medium stiff)		6
5									
6	4	6.0	8.0	SS/24	4-5-6-6		Brown SILT, trace CLAY (wet, stiff)		11
7									
8	5	8.0	10.0	SS/24	4-5-7-8		Brown SILT, trace CLAY (wet, stiff) <i>PP=1.75, 1.5, 2.0</i>		12
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/14	4-16-16		Grey cmf SAND, little mf GRAVEL, little SILT (wet, compact) <i>Augered slightly harder at 14.2'</i>		32
15									
16									
17									
18							----- <i>Augered harder at 18.1'</i>		
19	7	18.5	18.6	SS/1	100/1"		Grey ROCK chips, fragments & flour (wet) Bottom of Boring at 18.6'		100+
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod  
 PP=Pocket Penetrameter Results in tsf


**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-26	<b>Page No.</b> 1 of 1	<b>Report No.</b> 28062B-01-0523-R1			
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll		<b>Date Started:</b> 04/18/23		<b>Date Finished:</b> 04/18/23			
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 392.1'							
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b> G. Richard <b>Driller:</b> C. O'Hara <b>Inspector:</b> A. Sharma, E.I.T. <b>Drill Rig:</b> CME 55 <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				04/18/23	While Drilling	10.3	13.5		
				04/18/23	Before Casing Removed	6.9	18.0		
				04/18/23	After Casing Removed	0	out		
				04/18/23	After Casing Removed	caved @ 4.8'	out		
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse m - medium f - fine</b>	<b>and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0		0.0	2.0	SS/17	WH-WH-2-WH		Brown SILT, trace CLAY, trace ORGANIC Materials (moist, soft)		2
1									
2	2	2.0	4.0	SS/24	3-4-5-5		Brown Mottled SILT, trace CLAY (moist, stiff) PP=2.5, 2.5, 3.0		9
3									
4	3	4.0	6.0	SS/24	3-2-3-3		Brown SILT, trace CLAY, (moist, medium stiff) PP=1.5, 1.25, 1.5		5
5									
6	4	6.0	8.0	SS/24	WH-3-3-5		Brown SILT, trace CLAY (wet, medium stiff) PP=1.5, 1.5, 2.0		6
7									
8	5	8.0	10.0	SS/19	3-6-7-8		Same as above (wet, stiff)		13
9									
10									
11									
12									
13									
14	6A	13.5	14.0	SS/6	5-7-7		Brown SILT, trace CLAY (moist, stiff)		14
14	6B	14.0	15.0				Grey cmf SAND, little mf GRAVEL, trace SILT (wet, medium compact)		
15							Augered gravely from 15.6' to 16.2'		
16									
17									
18							Augered harder at 17.7'		
19	7	18.0	18.1	SS/1	100/1"		Grey ROCK chips, fragments & flour (wet)		100+
20							Bottom of Boring at 18.1'		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod


PP=Pocket Penetrameter Results in tsf

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> <b>B-27</b>					
						<b>Page No.</b> 1 of 1					
						<b>Report No.</b> 28062B-01-0523-R1					
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 04/18/23									
<b>Client:</b> Ramboll		<b>Date Finished:</b> 04/18/23									
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 390'									
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b> G. Richard		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>	
<b>Driller:</b> C. O'Hara		<b>Casing Hammer:</b>		04/18/23		While Drilling		5.6		13.5	
<b>Inspector:</b> A. Sharma, E.I.T.		<b>Other:</b>		04/18/23		Before Casing Removed		6.9		16.7	
<b>Drill Rig:</b> CME 55		<b>Soil Sampler:</b> 2" OD Split Barrel		04/18/23		After Casing Removed		4.4		out	
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		04/18/23		After Casing Removed		caved @ 8.4		out	
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.									
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
		From	To				m - medium f - fine				
0	1A	0.0	0.5	SS/17	1-3-5-5		Topsoil and Organic Matter (wet)		8		
1	1B	0.5	2.0				Brown Mottled SILT, little CLAY, trace ROOTS (moist, medium stiff)				
2	2	2.0	4.0	SS/22	6-6-4-4		Brown Mottled SILT, trace CLAY (wet, stiff) <i>PP=1.5, 1.0, 1.0</i>		10		
3											
4	3	4.0	6.0	SS/22	2-4-5-6		Brown SILT, trace CLAY (moist, stiff)		9		
5											
6	4	6.0	8.0	SS/24	3-5-5-7		Brown SILT, trace CLAY (wet, stiff)		10		
7											
8	5	8.0	10.0	SS/16	4-5-5-7		Same as above (moist, stiff) <i>PP=1.5, 1.5, 1.5</i>		10		
9											
10											
11											
12											
13	6	13.5	15.0	SS/16	8-9-9		Grey cmf SAND, little mf GRAVEL, trace SILT (wet, medium compact)		18		
14											
15											
16	7	16.7	16.8	SS/1	100/1"		<i>Augured hard at 16.6'</i> Grey ROCK chips & fragments (wet)		100+		
17											
18							Bottom of Boring at 16.8'				
19											
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod  
 PP=Pocket Penetrameter Results in tsf


**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b>	<b>B-28</b>			
					<b>Page No.</b>	1 of 1			
					<b>Report No.</b>	28062B-01-0523-R1			
<b>Project Name:</b>	Micron Campus, Clay, New York			<b>Date Started</b>	04/18/23				
<b>Client:</b>	Ramboll			<b>Date Finished</b>	04/18/23				
<b>Location:</b>	See Exploration Location Plan			<b>Surface Elev.</b>	390.5'				
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b>	G. Richard	<b>Casing:</b>	3 ¼" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>			04/18/23	While Drilling			
<b>Inspector:</b>	A. Sharma, E.I.T.	<b>Other:</b>			04/18/23	Before Casing Removed	7.8	18.5	
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	2" OD Split Barrel		04/18/23	After Casing Removed	5.3	out	
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.		04/18/23	After Casing Removed	caved @ 8.3	out	
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.						
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1	0.0	2.0	SS/16	WH-1-3-4		Brown SILT, little CLAY, trace ROOTS (moist, medium stiff)		4
1							-----		
2	2	2.0	4.0	SS/18	4-4-5-4		Brown Mottled SILT, trace CLAY (moist, stiff) <i>PP=1.75, 2.0, 2.0</i>		9
3									
4	3	4.0	6.0	SS/16	2-2-2-1		Brown SILT, trace CLAY (wet, medium stiff) <i>PP=1.25, 1.25, 1.0</i>		4
5									
6	4	6.0	8.0	SS/16	3-4-5-5		Same as above (wet, stiff) <i>PP=1.25, 1.25, 1.0</i>		9
7									
8	5	8.0	10.0	SS/20	2-6-7-5		Same as above (moist, stiff)		13
9									
10									
11							----- <i>Augered cobbly from 11' to 12.4'</i>		
12									
13									
14	6	13.5	15.0	SS/16	13-16-16		Brown/Grey SILT and mf GRAVEL, trace cmf SAND (moist, hard)		32
15									
16									
17									
18									
19	7	18.5	18.9	SS/4	100/5"		Dark Grey ROCK fragments (wet)		100+
20							Bottom of Boring at 18.9'		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

PP=Pocket Penetrameter Results in tsf

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-29					
				<b>Page No.</b> 1 of 2					
				<b>Report No.</b> 28062B-01-0523-R1					
<b>Project Name:</b>	Micron Campus, Clay, New York			<b>Date Started</b> 04/19/23					
<b>Client:</b>	Ramboll			<b>Date Finished</b> 04/19/23					
<b>Location:</b>	See Exploration Location Plan			<b>Surface Elev.</b> 389.7'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	G. Richard	<b>Casing:</b>	3 1/4" ID H.S.A.						
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>	<b>Date</b>	<b>Time</b>					
<b>Inspector:</b>	A. Sharma, E.I.T.	<b>Other:</b>	04/19/23	While Drilling					
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	04/19/23	Before Casing Removed					
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	04/19/23	After Casing Removed					
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	04/19/23	After Casing Removed					
				Depth (Ft.)					
				Casing At (Ft.)					
				18.0					
				18.5					
				out					
				caved @ 3.5					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1A	0.0	0.3						
1	1B	0.3	2.0	SS/18	1-1-2-4			Topsoil and Organic Matter (wet) Brown SILT, trace CLAY, trace ROOT Hairs (moist, soft)	3
2	2	2.0	4.0	SS/14	5-4-5-3			Brown SILT, trace CLAY (moist, stiff)	9
3									
4	3	4.0	6.0	SS/11	5-5-4-4			Brown SILT, trace CLAY, trace fine GRAVEL (wet, stiff)	9
5									
6	4	6.0	8.0	SS/17	4-5-6-7			Brown SILT, trace CLAY (wet, stiff) PP=1.5, 1.25, 1.5	11
7									
8	5	8.0	10.0	SS/17	4-5-6-7			Similar as above (wet, stiff) PP=1.5, 1.5, 1.5	11
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/16	7-6-5			Similar as above (wet, stiff)	11
15									
16									
17									
18									
19	7	18.5	20.0	SS/-	2-3-5			Grey SILT, trace CLAY, trace mf GRAVEL (wet, stiff)	8
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

PP=Pocket Penetrameter Results in tsf

**Remarks:**



**CME**  
Associates, Inc.

6035 Corporate Drive  
East Syracuse, NY 13057  
Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-29</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**


Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %							
		From	To													
20																
21																
22																
23	8	23.5	23.9	SS/3	100/5"				100+							
24																
25																
26																
27																
28																
29																
30																
31																
32																
33																
34																
35																
36																
37																
38																
39																
40																
41																
42																
43																
44																
45																

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

Augers harder at 23.7'  
Dark Grey ROCK fragments (wet)  
Auger Refusal at 24.2'  
Bottom of Boring at 24.2'



		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-41	<b>Page No.</b> 1 of 1	<b>Report No.</b> 28062B-01-0523-R1
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll		<b>Location:</b> See Exploration Location Plan		<b>Date Started</b> 04/18/23	<b>Date Finished</b> 04/18/23	<b>Surface Elev.</b> 398.8'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher <b>Driller:</b> R. Casatelli <b>Inspector:</b> <b>Drill Rig:</b> CME 550X <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				04/18/23	While Drilling	none noted	4.0		
				04/18/23	Before Casing Removed	none noted	4.0		
				04/18/23	After Casing Removed	2.0 (Remark 1)	out		
				04/18/23	After Casing Removed	caved @ 9.3	out		
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	<b>SPT "N" or RQD %</b>
0	1	0.0	2.0	SS/14	1-2-3-4		Topsoil and Organic Matter (moist)		5
1									
2	2	2.0	2.7	SS/3	4-100/3"		Brown SILT, little cmf SAND, little cmf GRAVEL, trace ROCK fragments (moist) <i>Possible Reworked Material</i>		100+
3									
4	3	4.0	4.2	SS/2	100/2"		Grey ROCK Chips & fragments; <i>Auger refusal at 4.3'</i> Grey DOLOSTONE, slightly weathered, thinly to medium bedded, hard, thin layers (<1/4") of SHALE interbedded <i>Broken zone at 6.3' to 6.7'</i> Dark Grey SHALE, fresh, thinly bedded, medium hard Recovery: 60"/60"=100% RQD: 55"/60"=92% 8 pieces, 0" Chips and Fragmenst 1:25 min/ft, no waterloss, coring completed in 5th gear 25,000 RPM, 500 PSI down pressure		92%
5	4	4.3	8.5	C/60					
6		8.5	9.3						
7									
8									
9							Bottom of Boring at 9.3'		
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: 1. Water added for coring



6035 Corporate Drive  
 East Syracuse, NY 13057  
 Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-42</b>
<b>Page No.</b>	1 of 1
<b>Report No.</b>	28062B-01-0523-R1
<b>Date Started</b>	04/18/23
<b>Date Finished</b>	04/18/23
<b>Surface Elev.</b>	398.8'


<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	B. Fletcher	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	R. Casatelli	<b>Casing Hammer:</b>		04/18/23	While Drilling	none noted	4.8
<b>Inspector:</b>		<b>Other:</b>		04/18/23	Before Casing Removed	none noted	4.8
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	2" OD Split Barrel	04/18/23	After Casing Removed	none noted	out
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	04/18/23	After Casing Removed	caved @ 3.0	out
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5	SS/18	1-2-3-3		Topsoil and Organic Matter (wet)		5
1	1B	0.5	2.0				Light Brown SILT, trace mf SAND, trace fine GRAVEL (moist, medium stiff)		
2	2	2.0	4.0	SS/17	2-3-3-3		Light Brown SILT and cmf SAND, little mf GRAVEL (moist, medium stiff)		6
3									
4	3	4.0	4.7	SS/6	2-100/2"		Light Brown SILT, trace cmf SAND, trace ROCK fragments, trace CLAY (moist, hard)		100+
5							<i>Auger Refusal at 4.8'</i>		
6							Bottom of Boring at 4.8'		
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-43	<b>Page No.</b> 1 of 1	<b>Report No.</b> 28062B-01-0523-R1	
<b>Project Name:</b> Micron Campus, Clay, New York					<b>Date Started</b>	04/18/23		
<b>Client:</b> Ramboll					<b>Date Finished</b>	04/18/23		
<b>Location:</b> See Exploration Location Plan					<b>Surface Elev.</b>	396.3'		
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b> R. Casatelli		<b>Casing Hammer:</b>		04/18/23	While Drilling	none noted	9.9	
<b>Inspector:</b>		<b>Other:</b>		04/18/23	Before Casing Removed	none noted	9.9	
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		04/18/23	After Casing Removed	none noted	out	
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		04/18/23	After Casing Removed	caved @ 5.0	out	
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.						
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1A	0.0	0.5	SS/12	1-2-2-3	-----	Topsoil and Organic Matter (wet)	4
1	1B	0.5	2.0				Light Brown SILT, trace fine SAND, trace cmf GRAVEL, trace ROOT Hairs (moist, medium stiff)	
2	2	2.0	4.0	SS/15	3-3-3-4		Light Brown cmf SAND and SILT, trace fine GRAVEL, trace ROOT Hairs (moist, loose)	6
3								
4	3	4.0	6.0	SS/20	3-5-4-12		Light Brown SILT, trace cmf SAND, trace fine GRAVEL (moist, stiff)	9
5								
6	4	6.0	8.0	SS/18	9-7-12-16		Light Brown SILT, little mf GRAVEL, trace fine SAND trace ROCK fragments (moist, very stiff)	19
7								
8	5	8.0	9.7	SS/16	20-28-36-100/3		Light Brown/Grey SILT and cmf GRAVEL, little cmf SAND, little ROCK fragments (moist, hard)	64
9							<i>Auger Refusal at 9.9'</i>	
10							Bottom of Boring at 9.9'	
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-44					
				<b>Page No.</b> 1 of 1					
				<b>Report No.</b> 28062B-01-0523-R1					
<b>Project Name:</b>	Micron Campus, Clay, New York			<b>Date Started</b> 04/18/23					
<b>Client:</b>	Ramboll			<b>Date Finished</b> 04/18/23					
<b>Location:</b>	See Exploration Location Plan			<b>Surface Elev.</b> 397.9'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	B. Fletcher	<b>Casing:</b>	3 1/4" ID H.S.A.						
<b>Driller:</b>	R. Casatelli	<b>Casing Hammer:</b>	<b>Date</b>	<b>Time</b>					
<b>Inspector:</b>		<b>Other:</b>	04/18/23	While Drilling					
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	04/18/23	Before Casing Removed					
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	04/18/23	After Casing Removed					
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	04/18/23	After Casing Removed					
				caved @ 5.6					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	1.0	SS/19	WH-2-2-3		Topsoil and Organic Matter (wet)		4
1	1B	1.0	2.0				Light Brown SILT, trace fine SAND, trace fine GRAVEL, trace ROOT Hairs (moist, medium stiff)		
2	2	2.0	4.0	SS/18	2-3-3-3		Light Brown SILT, little cmf GRAVEL, trace cmf SAND (moist, medium stiff)		6
3									
4	3	4.0	6.0	SS/20	2-3-10-14		Light Brown SILT, little mf GRAVEL, trace fine SAND (moist, stiff)		13
5									
6	4	6.0	8.0	SS/14	17-20-30-30		Grey SILT, little cmf GRAVEL, trace mf SAND, trace ROCK fragments (moist, hard)		50
7									
8	5	8.0	10.0	SS/22	13-14-15-28		Grey SILT, little cmf GRAVEL, trace mf SAND, trace ROCK fragments (wet, very stiff)		29
9									
10									
11									
12	6	12.0	12.0	SS/0	100/0"		No Recovery, Auger Refusal at 12.0' Bottom of Boring 12.0'		100+
13									
14									
15									
16									
17									
18									
19									
20									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-45 <b>Page No.</b> 1 of 1 <b>Report No.</b> 28062B-01-0523-R1						
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 04/18/23			<b>Surface Elev.:</b> 399.9'						
<b>Client:</b> Ramboll		<b>Date Finished:</b> 04/18/23									
<b>Location:</b> See Exploration Location Plan											
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>							
<b>Driller:</b> B. Fletcher		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>	
<b>Driller:</b> R. Casatelli		<b>Casing Hammer:</b>		04/18/23		While Drilling		none noted		17.7	
<b>Inspector:</b>		<b>Other:</b>		04/18/23		Before Casing Removed		none noted		17.7	
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		04/18/23		After Casing Removed		none noted		out	
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		04/18/23		After Casing Removed		caved @ 5.7		out	
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.									
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
0	1A	0.0	1.8	SS/19	WH-1-3-7		Topsoil and Organic Matter (wet)				4
1	1B	1.8	2.0				Light Brown SILT, trace mf SAND (moist, medium, stiff)				
2	2	2.0	4.0	SS/17	8-10-7-6		Light Brown SILT, trace mf GRAVEL, trace fine SAND (moist, very stiff)				17
3											
4	3	4.0	6.0	SS/16	8-6-7-7		Light Brown SILT, trace fine GRAVEL, trace mf SAND (moist, stiff)				13
5											
6	4	6.0	8.0	SS/22	6-5-8-10		Light Brown SILT, some cmf SAND, trace mf GRAVEL (moist, stiff)				13
7											
8	5	8.0	10.0	SS/20	13-16-18-34		Grey/Brown SILT, some cmf GRAVEL, little ROCK fragments, trace cmf SAND (moist, hard)				34
9											
10											
11											
12											
13											
14	6	13.5	15.5	SS/18	11-15-17		Grey SILT, little cmf GRAVEL, little fine SAND (moist, hard)				32
15											
16											
17											
18	7	17.7	17.7	SS/0	100/0"		No Recovery				100+
19							Bottom of Boring at 17.7'				
20											


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> B-50			
						<b>Page No.</b> 1 of 1			
						<b>Report No.</b> 28062B-01-0523-R1			
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started</b> 04/18/23				<b>Date Finished</b> 04/18/23			
<b>Client:</b> Ramboll		<b>Location:</b> See Exploration Location Plan				<b>Surface Elev.</b> 396.6'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher <b>Driller:</b> R. Casatelli <b>Inspector:</b> <b>Drill Rig:</b> CME 550X <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b> 04/18/23 04/18/23 04/18/23 04/18/23		<b>Time</b> While Drilling Before Casing Removed After Casing Removed After Casing Removed			
				<b>Depth (Ft.)</b> none noted none noted none noted caved @ 7.0		<b>Casing At (Ft.)</b> 14.5 14.5 out out			
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	1.0	SS/17	1-1-2-3		Topsoil and Organic Matter (wet)		3
1	1B	1.0	2.0				Light Brown SILT, little cmf GRAVEL, trace cmf SAND (moist, soft)		
2	2	2.0	4.0	SS/16	2-6-4-3		Light Brown SILT and cmf SAND, some mf GRAVEL (moist, stiff)		10
3									
4	3	4.0	6.0	SS/19	6-10-8-8		Light Brown SILT, little cmf GRAVEL, trace cmf SAND (moist, very stiff)		18
5									
6	4	6.0	8.0	SS/15	10-12-14-20		Light Brown SILT, little mf GRAVEL, trace fine SAND (moist, very stiff)		26
7									
8	5	8.0	10.0	SS/16	13-10-10-10		Grey SILT, little cmf GRAVEL, trace ROCK fragments, trace cmf SAND (moist, very stiff)		20
9									
10									
11									
12									
13									
14	6	13.5	14.4	SS/12	38-100/15"		Grey SILT, little cmf GRAVEL, little ROCK fragments (moist, hard)		100+
15							Auger Refusal at 14.5'		
16							Bottom of Boring at 14.5'		
17									
18									
19									
20									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>	<b>B-124</b>		
						<b>Page No.</b>	1 of 1		
						<b>Report No.</b>	28062B-01-0523-R1		
<b>Project Name:</b>	Micron Campus, Clay, New York				<b>Date Started</b>	04/26/23			
<b>Client:</b>	Ramboll				<b>Date Finished</b>	04/26/23			
<b>Location:</b>	See Exploration Location Plan				<b>Surface Elev.</b>	420.8'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>	B. Fletcher	<b>Casing:</b>	3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b>	R. Casatelli	<b>Casing Hammer:</b>			04/26/23	While Drilling	none noted	13.5	
<b>Inspector:</b>		<b>Other:</b>			04/26/23	Before Casing Removed	none noted	13.5	
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	2" OD Split Barrel		04/26/23	After Casing Removed	none noted	out	
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.		04/26/23	After Casing Removed	caved @ 6.0	out	
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.						
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	1.0	SS/20	WH-WH-1-2		Topsoil and Organic Matter (wet)		1
1	1B	1.0	2.0				----- Light Brown SILT, little cmf SAND (moist, very soft)		
2	2	2.0	4.0	SS/19	7-10-15-19		Light Brown SILT, some cmf SAND, trace mf GRAVEL (moist, very stiff)		25
3									
4	3	4.0	6.0	SS/20	13-17-20-27		Light Brown SILT, some cmf SAND, trace fine GRAVEL (moist, hard)		37
5									
6	4	6.0	7.6	SS/18	29-46-95-100/1"		Light Brown SILT, some cmf SAND, trace fine GRAVEL (moist, hard)		141
7									
8	5	8.0	8.4	SS/5	100/5"		Grey/Brown cmf SAND, some mf GRAVEL, trace SILT (moist, hard)		100+
9									
10									
11									
12									
13									
14	6	13.5	13.9	SS/5	100/5"		Grey SILT, some cmf SAND, trace fine GRAVEL (moist, hard)		100+
15							Bottom of Boring at 13.9'		
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod


**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-125	<b>Page No.</b> 1 of 1	<b>Report No.</b> 28062B-01-0523-R1
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll		<b>Location:</b> See Exploration Location Plan		<b>Date Started</b> 04/25/23	<b>Date Finished</b> 04/25/23	<b>Surface Elev.</b> 422.1'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher <b>Driller:</b> R. Casatelli <b>Inspector:</b> <b>Drill Rig:</b> CME 550X <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				04/25/23	While Drilling	11.2	13.5		
				04/25/23	Before Casing Removed	11.2	13.5		
				04/25/23	After Casing Removed	none noted	out		
				04/25/23	After Casing Removed	caved @ 9.0	out		
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> <b>From</b> <b>To</b>		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse</b> <b>m - medium</b> <b>f - fine</b>	<b>and - 35 to 50% / some - 20 to 35%</b> <b>little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1A	0.0	1.0	SS/16	WH-WH-2-1		Topsoil and Organic Matter (wet)		2
1	1B	1.0	2.0	SS/10			----- Light Brown SILT, little cmf SAND, trace fine GRAVEL, trace ORGANIC Materials (moist, soft)		
2	2	2.0	4.0	SS/15	1-2-3-6		Light Brown SILT, little mf SAND, trace fine GRAVEL (wet, medium stiff)		5
3									
4	3	4.0	6.0	SS/22	27-37-15-28		Light Brown SILT, little mf SAND, little cmf GRAVEL (moist, hard)		52
5									
6	4	6.0	8.0	SS/17	18-40-37-33		Light Brown SILT, little cmf GRAVEL, trace cmf SAND (moist hard)		77
7									
8	5	8.0	10.0	SS/23	11-17-42-28		Light Brown SILT, little cmf SAND, trace CLAY (moist, hard)		59
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/18	16-24-49		Grey SILT, little fine SAND, trace CLAY (moist, hard)		73
15							Bottom of Boring at 15'		
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod


Remarks:



 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-126 <b>Page No.</b> 1 of 1 <b>Report No.</b> 28062B-01-0523-R1						
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 04/25/23									
<b>Client:</b> Ramboll		<b>Date Finished:</b> 04/25/23									
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 421.6'									
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>							
<b>Driller:</b> B. Fletcher		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>	
<b>Driller:</b> R. Casatelli		<b>Casing Hammer:</b>		04/25/23		While Drilling		2.7		4.6	
<b>Inspector:</b>		<b>Other:</b>		04/25/23		Before Casing Removed		11.2		13.5	
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		04/25/23		After Casing Removed		2.6		out	
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		04/25/23		After Casing Removed		caved @ 3.5		out	
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.									
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
0	1	0.0	2.0	SS/6	WH-3-3-3		Topsoil and Organic Matter (moist)				6
1											
2	2	2.0	4.8	SS/6	2-2-2-1		Light Brown SILT, trace cmf SAND, trace fine GRAVEL (moist, medium stiff) <i>No recovery on 1<sup>st</sup> attempt</i>				4
3											
4	3	4.0	6.0	SS/15	WH-WH-2-3		Light Brown SILT, some cmf SAND (wet, soft)				2
5											
6	4	6.0	8.0	SS/20	8-17-16-18		Light Brown SILT, litte cmf SAND, trace mf GRAVEL (wet, hard)				33
7											
8	5	8.0	10.0	SS/20	13-25-31-50		Light Brown SILT, little mf GRAVEL, little cmf SAND (moist, hard)				56
9											
10											
11											
12											
13											
14	6	13.5	14.8	SS/14	28-80-100/4"		Grey SILT, some cmf SAND (moist, hard)				100+
15							Bottom of Boring at 14.8'				
16											
17											
18											
19											
20											


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-127 <b>Page No.</b> 1 of 1 <b>Report No.</b> 28062B-01-0523-R1						
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 04/25/23									
<b>Client:</b> Ramboll		<b>Date Finished:</b> 04/25/23									
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 420.6'									
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>							
<b>Driller:</b> R. Casatelli		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date:</b>		<b>Time:</b>		<b>Depth (Ft.):</b>		<b>Casing At (Ft.):</b>	
<b>Driller:</b> B. Fletcher		<b>Casing Hammer:</b>		04/25/23		While Drilling		none noted		13.5	
<b>Inspector:</b>		<b>Other:</b>		04/25/23		Before Casing Removed		none noted		13.5	
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		04/25/23		After Casing Removed		none noted		out	
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		04/25/23		After Casing Removed					
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.									
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
0	1	0.0	2.0	SS/12	4-2-2-5		Light Brown SILT, little cmf SAND, trace fine GRAVEL, trace ORGANIC Materials (moist, medium stiff)				4
1											
2	2	2.0	4.0	SS/13	7-5-12-42		Light Brown SILT, some cmf SAND, trace mf GRAVEL (moist, very stiff)				17
3											
4	3	4.0	6.0	SS/19	17-21-25-43		Light Brown SILT, some cmf SAND, trace mf GRAVEL (moist, hard)				46
5											
6	4	6.0	7.7	SS/19	45-64-88-100/3"		Light Brown SILT, some cmf SAND, trace mf GRAVEL (moist, hard)				152
7											
8	5	8.0	8.9	SS/10	47-100/5"		Grey SILT, some cmf SAND, little mf GRAVEL (moist, hard)				100+
9											
10											
11											
12											
13											
14	6	13.5	15.0	SS/18	69-78-95		Grey SILT, some cmf SAND, little mf GRAVEL (moist, hard)				173
15							Bottom of Boring at 15.0'				
16											
17											
18											
19											
20											


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-128					
				<b>Page No.</b> 1 of 1					
				<b>Report No.</b> 28062B-01-0523-R1					
<b>Project Name:</b>	Micron Campus, Clay, New York			<b>Date Started</b> 04/26/23					
<b>Client:</b>	Ramboll			<b>Date Finished</b> 04/26/23					
<b>Location:</b>	See Exploration Location Plan			<b>Surface Elev.</b> 419.5'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	B. Fletcher	<b>Casing:</b>	3 1/4" ID H.S.A.						
<b>Driller:</b>	R. Casatelli	<b>Casing Hammer:</b>	<b>Date</b>	<b>Time</b>					
<b>Inspector:</b>		<b>Other:</b>	04/26/23	While Drilling					
<b>Drill Rig:</b>	CME 550X	<b>Soil Sampler:</b>	04/26/23	Before Casing Removed					
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	04/26/23	After Casing Removed					
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	04/26/23	After Casing Removed					
				caved @ 7.4					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	1.0	SS/17	WH-WH-2-1		Topsoil and Organic Matter (wet)		2
1	1B	1.0	2.0				Light Brown SILT, little fine SAND, trace ORGANIC Materials (wet, stiff)		
2	2	2.0	4.0	SS/17	2-2-7-8		Light Brown SILT, some cmf SAND, some mf GRAVEL (moist, GRAVEL (moist, stiff) <i>Looks Reworked</i>		9
3									
4	3	4.0	6.0	SS/15	4-28-59-24		Brown SILT and mf GRAVEL, little cmf SAND, trace CLAY (moist, hard)		87
5									
6	4	6.0	8.0	SS/24	8-20-27-42		Light Brown SILT, little cmf SAND, trace fine GRAVEL (moist, hard)		47
7									
8	5	8.0	8.7	SS/8	51-100/4"		Grey SILT, little cmf SAND, little mf GRAVEL (moist, hard)		100+
9									
10									
11									
12									
13									
14	6	13.5	14.3	SS/7	66-100/4"		Grey SILT, little cmf SAND, trace mf GRAVEL (moist, hard)		100+
15							Bottom of Boring at 14.3'		
16									
17									
18									
19									
20									

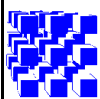
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-129	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-01-0523-R1
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll		<b>Location:</b> See Exploration Location Plan		<b>Date Started</b> 04/20/23	<b>Date Finished</b> 04/20/23	<b>Surface Elev.</b> 418.8'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher <b>Driller:</b> R. Casatelli <b>Inspector:</b> <b>Drill Rig:</b> CME 550X <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				04/20/23	While Drilling	3.0	4.0		
				04/20/23	Before Casing Removed	4.0	29.8		
				04/01/23	After Casing Removed	1.2	out		
				04/20/23	After Casing Removed	caved @ 24.5	out		
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> <b>From</b> <b>To</b>		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse</b> <b>m - medium</b> <b>f - fine</b>		<b>SPT "N" or RQD %</b>
0	1	0.0	2.0	SS/8	WH-2-2-1		Topsoil and Organic Matter (moist)		4
1							-----		
2	2	2.0	4.0	SS/5	2-2-2-3		Light Brown cmf SAND and SILT, some CLAY, trace fine GRAVEL (wet, loose)		4
3									
4	3	4.0	6.0	SS/14	5-5-4-7		Brown SILT and cmf SAND, some CLAY, trace fine GRAVEL, trace ROOTS (moist, stiff)		9
5									
6	4	6.0	8.0	SS/15	9-12-21-36		Light Brown/Grey SILT, trace fine SAND, trace fine GRAVEL (moist, hard)		33
7									
8	5	8.0	8.9	SS/8	22-100/5"		Grey SILT, little cmf SAND, trace fine GRAVEL (moist, hard)		100+
9									
10									
11									
12									
13									
14	6	13.5	14.3	SS/8	38-100/4"		Grey SILT, little cmf GRAVEL, little cmf SAND (moist, hard)		100+
15									
16									
17									
18									
19	7	18.5	20.0	SS/18	26-37-56		Grey SILT, little cmf SAND, trace mf GRAVEL (moist, hard)		93
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



**CME**  
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6035 Corporate Drive  
East Syracuse, NY 13057  
Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-129</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20	8	23.5	25.0	SS/18	64-96-99		Grey SILT, little cmf GRAVEL, trace cmf SAND (moist, hard)	195	
21									
22									
23									
24									
25	9	28.5	29.3	SS/9	61-100/4"		Grey SILT, trace cmf GRAVEL, trace cmf SAND (moist, hard) <i>Auger Refusal at 29.8'</i>	100+	
26									
27									
28									
29									
30	10	29.8	34.8	C/60		3.1' of a mixture of COBBLES and GLACIAL TILL. 1.9' of core not recovered <i>Recovered Core ended in Glacial Till.</i>			
31									
32									
33									
34									
35	Bottom of Boring at 34.8'								
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-130 <b>Page No.</b> 1 of 1 <b>Report No.</b> 28062B-01-0523-R1						
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 04/27/23									
<b>Client:</b> Ramboll		<b>Date Finished:</b> 04/27/23									
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 418.8'									
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>							
<b>Driller:</b> B. Fletcher		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>	
<b>Driller:</b> R. Casatelli		<b>Casing Hammer:</b>		04/27/23		While Drilling		4.5		8.0	
<b>Inspector:</b>		<b>Other:</b>		04/27/23		Before Casing Removed		6.9		18.5	
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		04/27/23		After Casing Removed		1.3		out	
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		04/27/23		After Casing Removed		caved @ 5.2		out	
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.									
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
0	1	0.0	2.0	SS/10	1-2-3-2		Topsoil and Organic Matter (moist)				5
1											
2	2	2.0	4.0	SS/14	4-10-17-17		Brown SILT, little mf GRAVEL, little cmf SAND, trace CLAY (wet, very stiff)				27
3											
4	3	4.0	6.0	SS/12	18-95-26-16		Brown Grey/SILT, some mf GRAVEL, little cmf SAND, trace CLAY (moist, hard)				121
5											
6	4	6.0	8.0	SS/17	23-14-18-18		Light Brown SILT and mf GRAVEL, some cmf SAND (wet, hard)				32
7											
8	5	8.0	10.0	SS/11	47-81-37-21		Light Brown SILT, little cmf SAND, little fine GRAVEL (wet, hard)				118
9											
10											
11											
12											
13											
14	6	13.5	15.0	SS/12	31-28-16		Light Brown SILT, some mf GRAVEL, little cmf SAND (wet, hard)				44
15											
16											
17											
18											
19	7	18.5	20.0	SS/18	16-25-36		Light Brown cmf SAND and SILT, trace mf GRAVEL (wet, very compact)				61
20							Bottom of Boring 20.0'				

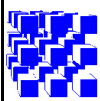
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-132	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-01-0523-R1
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll		<b>Location:</b> See Exploration Location Plan		<b>Date Started</b> 04/20/23	<b>Date Finished</b> 04/20/23	<b>Surface Elev.</b> 410.3'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher <b>Driller:</b> R. Casatelli <b>Inspector:</b> <b>Drill Rig:</b> CME 550X <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				04/20/23	While Drilling	none noted	23.5		
				04/20/23	Before Casing Removed	none noted	23.5		
				04/20/23	After Casing Removed	none noted	out		
				04/20/23	After Casing Removed				
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse</b> <b>m - medium</b> <b>f - fine</b>	<b>and - 35 to 50% / some - 20 to 35%</b> <b>little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1A	0.8	1.0	SS/19	WH-WH-4-4		Topsoil and Organic Matter (wet)		4
1	1B	1.0	2.0	SS/19			Light Brown/Grey SILT, trace CLAY, trace fine GRAVEL, trace cmf SAND (moist, medium stiff)		
2	2	2.0	4.0	SS/18	8-4-8-6		Light Brown SILT, some cmf SAND, trace CLAY, trace fine GRAVEL (moist, stiff)		12
3									
4	3	4.0	6.0	SS/20	3-4-9-14		Light Brown SILT, little cmf SAND, trace CLAY, trace fine GRAVEL (moist, stiff)		13
5									
6	4	6.0	8.0	SS/15	12-30-33-38		Brown/Grey SILT, trace fine SAND (moist, hard)		63
7									
8	5	8.0	10.0	SS/24	11-19-24-42		Grey SILT, trace fine GRAVEL, trace fine SAND (moist, hard)		43
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/18	27-38-59		Grey SILT, trace fine SAND, trace fine GRAVEL (moist, hard)		97
15									
16									
17									
18									
19	7	18.5	19.1	SS/8	34-100/2"		Grey SILT, trace fine SAND, trace fine GRAVEL (moist, hard)		100+
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
Associates, Inc.

6035 Corporate Drive  
East Syracuse, NY 13057  
Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-132</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.5	25.0	SS/16	34-44-100		Grey SILT, trace fine GRAVEL, trace fine SAND (moist, hard)	144	
21									
22									
23									
24									
25									
26							Bottom of Boring at 25.0'		
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**





6035 Corporate Drive  
 East Syracuse, NY 13057  
 Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-133</b>
<b>Page No.</b>	1 of 1
<b>Report No.</b>	28062B-01-0523-R1
<b>Date Started</b>	04/25/23
<b>Date Finished</b>	04/25/23
<b>Surface Elev.</b>	410.3'


<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	G. Richard	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>		04/25/23	While Drilling	8	13.5
<b>Inspector:</b>	A. Sharma, E.I.T.	<b>Other:</b>		04/25/23	Before Casing Removed	9.1	18.5
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	2" OD Split Barrel	04/25/23	After Casing Removed	4	out
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	04/25/23	After Casing Removed	caved @ 1.7	out
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/14	WH-1-1-2		Topsoil and Organic Matter (wet)		2
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace fine SAND (moist, soft)		
2	2	2.0	4.0	SS/24	2-2-2-2		Brown SILT, little cmf SAND, trace CLAY (moist, medium stiff)		4
3									
4	3	4.0	6.0	SS/24	1-4-8-11		Brown SILT, little fine GRAVEL, trace CLAY, trace mf SAND (moist, stiff)		12
5									
6	4	6.0	8.0	SS/23	9-12-21-27		Brown/Grey SILT, trace CLAY, trace cmf SAND, trace fine GRAVEL (moist, hard)		33
7									
8	5	8.0	10.0	SS/13	2-6-15-18		Grey SILT, trace CLAY, trace mf GRAVEL, trace cmf SAND (moist, very stiff)		21
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/8	10-17-27		Similar soil as above (moist, hard)		44
15									
16									
17									
18									
19	7	18.5	19.5	SS/12	38-100/6"		Grey cmf SAND and SILT, little mf GRAVEL, trace ROCK fragments (moist, very compact)		100+
20							Bottom of Boring at 19.5'		


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-134 <b>Page No.</b> 1 of 1 <b>Report No.</b> 28062B-01-0523-R1					
<b>Project Name:</b>	Micron Campus, Clay, New York		<b>Date Started</b>	04/20/23					
<b>Client:</b>	Ramboll		<b>Date Finished</b>	04/20/23					
<b>Location:</b>	See Exploration Location Plan		<b>Surface Elev.</b>	411.5'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	G. Richard	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>					
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>		<b>Time</b>					
<b>Inspector:</b>	A. Sharma, E.I.T.	<b>Other:</b>		<b>Depth (Ft.)</b>					
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	2" OD Split Barrel	<b>Casing At (Ft.)</b>					
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	04/20/23					
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.	04/20/23					
				While Drilling					
				Before Casing Removed					
				After Casing Removed					
				After Casing Removed					
				caved @ 10.4					
				out					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/6	WH-1-1-1		Topsoil, SILT and Organic Matter (moist)		2
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace mf GRAVEL, trace ROOTS (moist, soft)		
2	2	2.0	4.0	SS/24	WH-1-4-6		Brown SILT, some cmf SAND, little mf GRAVEL (wet, medium stiff)		5
3									
4	3	4.0	6.0	SS/18	9-31-35-57		Brown mf GRAVEL, some cmf SAND, some SILT, trace CLAY (moist, very compact)		66
5									
6	4	6.0	7.9	SS/18	21-41-70-100/4"		Brown SILT, little cmf GRAVEL, trace cmf SAND (moist, hard)		111
7									
8	5	8.0	10.0	SS/18	21-28-32-27		Brown SILT, little cmf GRAVEL, trace cmf SAND (moist, hard)		60
9									
10									
11									
12									
13									
14	6	13.5	14.3	SS/18	59-100 /4"		Grey SILT and GRAVEL, trace CLAY (moist, hard)		100+
15									
16									
17									
18									
19	7	18.5	18.9	SS/5	100/ 5"		Similar as above (moist, hard)		100+
20							Bottom of Boring at 18.9'		


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-135					
				<b>Page No.</b> 1 of 1					
				<b>Report No.</b> 28062B-01-0523-R1					
<b>Project Name:</b>	Micron Campus, Clay, New York			<b>Date Started</b> 04/20/23					
<b>Client:</b>	Ramboll			<b>Date Finished</b> 04/20/23					
<b>Location:</b>	See Exploration Location Plan			<b>Surface Elev.</b> 412.5'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	G. Richard	<b>Casing:</b>	3 1/4" ID H.S.A.						
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>	<b>Date</b>	<b>Time</b>					
<b>Inspector:</b>	A. Sharma, E.I.T.	<b>Other:</b>	04/20/23	While Drilling					
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	04/20/23	Before Casing Removed					
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	04/20/23	After Casing Removed					
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	04/20/23	After Casing Removed					
				Depth (Ft.)					
				Casing At (Ft.)					
				6.4					
				7.2					
				1.8					
				caved @ 9.5					
				out					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/18	WH-1-1-2		Topsoil & Organic Matter (moist)		2
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace fine GRAVEL, trace ROOT Hairs (moist, soft)		
2	2	2.0	4.0	SS/24	1-11-22-23		Brown SILT, little mf GRAVEL, trace cmf SAND (moist, hard)		33
3									
4	4	4.0	6.0	SS/24	5-11-21-25		Similar as above (moist, hard)		32
5									
6	4A	6.0	7.0	SS/24	20-35-37-74		Similar as above (wet, hard)		72
7	4B	7.0	8.0				Grey SILT, some cmf GRAVEL, trace cmf SAND (moist, hard)		
8	5	8.0	10.0	SS/24	22-38-62-72		Grey/Brown SILT, some cmf GRAVEL, some cmf SAND (moist, hard)		100
9									
10									
11									
12									
13	6A	13.5	14.5	SS/12	77-65-100/5"		Similar as above (moist, hard)		100+
14	6B	14.5	15.0				Brown SILT and cmf SAND, little cmf GRAVEL (moist, hard)		
15									
16									
17									
18	7	18.5	19.9	SS/12	28-95-100/4"		Grey SILT, some mf GRAVEL, little cmf SAND (moist, hard)		100+
19							Bottom of Boring at 19.9'		
20									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> B-136 <b>Page No.</b> 1 of 1 <b>Report No.</b> 28062B-01-0523-R1			
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 04/20/23		<b>Client:</b> Ramboll		<b>Date Finished:</b> 04/20/23			
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 413'							
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> G. Richard		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date:</b>		<b>Time:</b>			
<b>Driller:</b> C. O'Hara		<b>Casing Hammer:</b>		04/20/23		While Drilling			
<b>Inspector:</b> A. Sharma, E.I.T.		<b>Other:</b>		04/20/23		Before Casing Removed			
<b>Drill Rig:</b> CME 55		<b>Soil Sampler:</b> 2" OD Split Barrel		04/20/23		After Casing Removed			
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		04/20/23		After Casing Removed			
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.				caved @ 5.2			
						out			
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	Visual Classification		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
0	1A	0.0	0.5	SS/15	WH-WH-2-2		Topsoil and Organic Matter (moist)		2
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace ORGANIC Materials (moist, soft)		
2	2	2.0	4.0	SS/10	WH-2-4-6		Brown SILT and cmf SAND, trace mf GRAVEL, trace CLAY (moist, medium stiff)		6
3									
4	3	4.0	6.0	SS/13	4-4-4-4		Brown SILT, some cmf SAND, trace fine GRAVEL (wet, medium stiff)		8
5									
6	4	6.0	8.0	SS/24	4-11-12-15		Brown SILT and mf SAND, trace cmf GRAVEL (wet, very stiff)		23
7									
8	5	8.0	10.0	SS/24	11-24-47-85		Brown/Grey SILT and cmf SAND, trace cmf GRAVEL (moist, hard)		71
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/16	36-61-81		Grey SILT and cmf SAND, trace cmf GRAVEL (moist, hard)		142
15									
16									
17									
18									
19	7	18.5	19.3	SS/-	37-87-100/4"	SS/-	Grey SILT, some cmf SAND, little cmf GRAVEL (moist, hard)		100+
20							Bottom of Boring at 19.3'		


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-137 <b>Page No.</b> 1 of 1 <b>Report No.</b> 28062B-01-0523-R1						
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 04/26/23									
<b>Client:</b> Ramboll		<b>Date Finished:</b> 04/26/23									
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 413.5'									
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>							
<b>Driller:</b> B. Fletcher		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>	
<b>Driller:</b> R. Casatelli		<b>Casing Hammer:</b>		04/26/23		While Drilling		none noted		13.5	
<b>Inspector:</b>		<b>Other:</b>		04/26/23		Before Casing Removed		none noted		13.5	
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		04/26/23		After Casing Removed		none noted		out	
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		04/26/23		After Casing Removed		caved @ 8.4		out	
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.									
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
0	1	0.0	2.0	SS/7	WH-1-2-2		Brown SILT, little cmf GRAVEL, little cmf SAND, trace ORGANIC Materials (moist)				3
1							-----				
2	2	2.0	4.0	SS/8	8-7-6-10		Light Brown SILT, little cmf SAND, little mf GRAVEL (wet, stiff)				13
3											
4	3	4.0	6.0	SS/17	7-9-11-8		Light Brown SILT, little cmf SAND, little mf GRAVEL (moist, very stiff)				20
5											
6	4	6.0	8.0	SS/20	7-10-16-21		Similar as above (moist, very stiff)				26
7											
8	5	8.0	10.0	SS/19	18-35-48-64		Grey SILT, little cmf SAND, trace fine GRAVEL (moist, hard)				83
9											
10											
11											
12											
13											
14											
15	6	13.5	15.0	SS/18	31-57-63		Grey SILT, trace mf GRAVEL, trace cmf SAND (moist, hard)				120
16											
17							Bottom of Boring at 15.0'				
18											
19											
20											


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-138 <b>Page No.</b> 1 of 1 <b>Report No.</b> 28062B-01-0523-R1						
<b>Project Name:</b> Micron Campus, Clay, New York					<b>Date Started:</b> 04/26/23						
<b>Client:</b> Ramboll					<b>Date Finished:</b> 04/26/23						
<b>Location:</b> See Exploration Location Plan					<b>Surface Elev.:</b> 412.4'						
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>							
<b>Driller:</b> B. Fletcher		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>	
<b>Driller:</b> R. Casatelli		<b>Casing Hammer:</b>		04/26/23		While Drilling		11.3		13.5	
<b>Inspector:</b>		<b>Other:</b>		04/26/23		Before Casing Removed		11.3		13.5	
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		04/26/23		After Casing Removed		4.3		out	
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		04/26/23		After Casing Removed		caved @ 9.5		out	
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.									
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
0	1A	0.0	1.0	SS/19	WH-WH-1-2		Topsoil & Organic Matter				1
1	1B	1.0	2.0				Light Brown SILT, little cmf SAND, little fine GRAVEL (moist, very soft)				
2	2	2.0	4.0	SS/17	1-2-2-3		Light Brown SILT, little cmf SAND, trace fine GRAVEL (wet, medium stiff)				4
3											
4	3	4.0	6.0	SS/24	WH-1-5-10		Similar as above (wet, medium stiff)				6
5											
6	4	6.0	8.0	SS/16	21-29-47-88		Light Brown SILT, some cmf SAND, little mf GRAVEL (moist, hard)				76
7											
8	5	8.0	9.5	SS/14	42-85-95-100/0'		Grey SILT, little cmf SAND, little mf GRAVEL (moist, hard)				180
9											
10											
11											
12											
13											
14	6	13.5	15.0	SS/15	47-33-32		Grey SILT, little cmf SAND, trace mf GRAVEL (moist, hard)				65
15							Bottom of Boring at 15.0'				
16											
17											
18											
19											
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b> B-226			
						Page No.		1 of 2	
						Report No.		28062B-01-0523-R1	
<b>Project Name:</b> Micron Campus, Clay, New York						<b>Date Started</b> 04/19/23			
<b>Client:</b> Ramboll						<b>Date Finished</b> 04/19/23			
<b>Location:</b> See Exploration Location Plan						<b>Surface Elev.</b> 390.1'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>			
<b>Driller:</b> R. Casatelli		<b>Casing Hammer:</b>		04/19/23		While Drilling			
<b>Inspector:</b>		<b>Other:</b>		04/19/23		Before Casing Removed			
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		04/19/23		After Casing Removed			
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		04/19/23		After Casing Removed			
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.				caved @ 9.0			
						out			
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1	0.0	2.0	SS/18	WH-3-4		Brown/Grey Mottled SILT, little CLAY, trace fine SAND (moist, medium stiff) <i>PP=1.5, 1.5, 1.0</i>	7	
1									
2	2	2.0	4.0	SS/20	3-5-5-5		Light Brown/Grey SILT and CLAY, trace mf SAND (moist, stiff) <i>PP=2.25, 2.0, 1.75</i>	10	
3									
4	3	4.0	6.0	SS/20	3-4-3-3		Light Brown SILT, trace CLAY, trace fine SAND (wet, medium stiff)	7	
5									
6	4	6.0	8.0	SS/21	3-4-5-5		Light Brown SILT, trace CLAY (wet, stiff)	9	
7									
8	5	8.0	10.0	SS/21	3-4-4-5		Similar as above (wet, stiff)	8	
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/18	2-2-3		Similar as above (wet, medium stiff)	5	
15									
16									
17									
18									
19	7	18.5	20.0	SS/15	6-3-3		Light Grey SILT, little fine SAND, trace fine GRAVEL (wet, medium stiff)	6	
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

PP=Pocket Penetrameter Results in tsf

**Remarks:**



**CME**  
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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-226</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1

**LOG OF BORING SAMPLES**


**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20									
21									
22									
23	8	23.0	23.0	SS/0	100/0"		Auger Refusal at 23.0'		100+
24							Bottom of Boring at 23.0'		
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

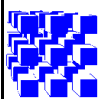


 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-227 <b>Page No.</b> 1 of 2 <b>Report No.</b> 28062B-01-0523-R1						
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 04/17/23									
<b>Client:</b> Ramboll		<b>Date Finished:</b> 04/17/23									
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 389.3'									
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>							
<b>Driller:</b> B. Fletcher		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>	
<b>Driller:</b> R. Casatelli		<b>Casing Hammer:</b>		04/17/23		While Drilling		8.5		24.0	
<b>Inspector:</b> A. Anasthas, P.E.		<b>Other:</b> NQ Core		04/17/23		Before Casing Removed		4.2 (Remark 1)		24.0	
<b>Drill Rig:</b> CME 550X		<b>Soil Sampler:</b> 2" OD Split Barrel		04/17/23		After Casing Removed		5.8 (Remark 1)		out	
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		04/17/23		After Casing Removed		caved @ 15.0		out	
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.									
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
0	1	0.0	2.0	SS/17	1-1-3-4		Brown Mottled SILT, some CLAY, trace ROOTS (moist, medium stiff)				4
1											
2	2	2.0	4.0	SS/19	4-5-5-5		Light Brown/Grey SILT, little CLAY (moist, stiff) <i>PP=0.75, 1.25, 1.0</i>				10
3											
4	3	4.0	6.0	SS/14	3-3-3-3		Light Brown/Grey SILT, little CLAY, trace ROOT Hairs (wet, medium, stiff)				6
5											
6	4	6.0	8.0	SS/18	5-4-4-6		Light Brown/Grey SILT, trace fine SAND (wet, stiff) <i>PP=0.75, 0.75, 1.0</i>				8
7											
8	5	8.0	10.0	SS/23	4-4-4-4		Light Brown SILT, trace CLAY (wet, stiff) <i>PP=1.25, 1.0, 1.25</i>				8
9											
10											
11											
12											
13											
14	6	13.5	15.0	SS/18	1-2-3		Grey SILT, trace CLAY, trace fine SAND (wet, medium stiff) <i>Soil is dilatent</i>				5
15											
16											
17											
18											
19	7	18.5	20.0	SS/15	3-7-12		Grey SILT, little mf SAND, trace cmf GRAVEL (moist, very stiff)				19
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

PP=Pocket Penetrameter Results in tsf

**Remarks:** 1. Water Added for Coring



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-227</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1

**LOG OF BORING SAMPLES**


**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20									
21									
22									
23	8	23.5	23.5	SS/0	100/0"				
24	9	24.0	29.0	C/59					100+
25									95%
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

*Sampler refusal at 23.5'; Auger refusal at 24'*  
 Grey DOLOSTONE, slightly weathered, medium to thickly bedded, hard, thin layers (<1/8") of SHALE interbedded throughout core run.  
  
 Recovery: 59"/60"=98%  
 RQD: 57"/60"=95%  
 5 pieces, 0" Chips and Fragments  
 0.0-1.0', 1:45 min/ft., 1.0'-5.0', 1:00 to 1:15 min/ft., No water loss, Coring conduction in 5<sup>th</sup> gear, 2,500 RPM, 500 PSI down pressure  
 Bottom of Boring at 29'

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-229	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-01-0523-R1
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll		<b>Location:</b> See Exploration Location Plan		<b>Date Started</b> 04/19/23	<b>Date Finished</b> 04/19/23	<b>Surface Elev.</b> 391.9'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> B. Fletcher <b>Driller:</b> R. Casatelli <b>Inspector:</b> <b>Drill Rig:</b> CME 550X <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				04/19/23	While Drilling	15.7	23.5		
				04/19/23	Before Casing Removed	12.7	27.4		
				04/19/23	After Casing Removed	5.8	out		
				04/19/23	After Casing Removed	caved @ 11.8	out		
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> <b>From</b> <b>To</b>		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse</b> <b>m - medium</b> <b>f - fine</b>	<b>and - 35 to 50% / some - 20 to 35%</b> <b>little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1	0.0	2.0	SS/18	WH-WH-3-3		Light Brown/Grey SILT, little CLAY, trace fine SAND, trace ORGANIC Materials (moist, soft)		3
1									
2	2	2.0	4.0	SS/19	4-5-5-4		Light Brown/Grey SILT, some CLAY, trace cmf SAND (moist, stiff) PP=0.75, 0.75, 1.0		10
3									
4	3	4.0	6.0	SS/17	4-4-4-4		Light Brown Mottled SILT, little CLAY, trace fine SAND (wet, stiff) PP=0.5, 0.75, 1.0		8
5									
6	4	6.0	8.0	SS/19	3-4-5-7		Light Brown SILT, trace CLAY (wet, stiff) PP=2.5, 2.0, 2.25		9
7									
8	5	8.0	10.0	SS/20	5-7-7-7		Similar as above (moist, stiff)		14
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/18	3-3-3		Light Grey SILT, trace CLAY (wet, medium stiff)		6
15									
16									
17									
18									
19	7	18.5	20.0	SS/16	4-8-11		Light Grey SILT, little mf GRAVEL, trace fine SAND (moist very stiff)		19
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

PP=Pocket Penetrameter Results in tsf

**Remarks:**



**CME**  
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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-229</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1

**LOG OF BORING SAMPLES**


**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20									
21									
22									
23	8	23.5	25.0	SS/10	12-15-17				32
24									
25									
26									
27	9	27.4	27.4	SS/0	100/1"				100+
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

-----  
*Auger Refusal at 27.4'*  
Bottom of Boring at 27.4'

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-230					
				<b>Page No.</b> 1 of 1					
				<b>Report No.</b> 28062B-01-0523-R1					
<b>Project Name:</b>	Micron Campus, Clay, New York			<b>Date Started</b> 04/25/23					
<b>Client:</b>	Ramboll			<b>Date Finished</b> 04/25/23					
<b>Location:</b>	See Exploration Location Plan			<b>Surface Elev.</b> 391'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	G. Richard	<b>Casing:</b>	3 1/4" ID H.S.A.						
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>	<b>Date</b>	<b>Time</b>					
<b>Inspector:</b>	A. Sharma, E.I.T.	<b>Other:</b>	04/25/23	While Drilling					
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	04/25/23	Before Casing Removed					
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	04/25/23	After Casing Removed					
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	04/25/23	After Casing Removed					
				caved @ 7.9					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/14	WH-WH-1-2		Topsoil and Organic Matter (moist)		1
1	1B	0.5	2.0				Brown SILT, little fine SAND, trace CLAY (moist, very soft)		
2	2	2.0	4.0	SS/17	4-5-6-6		Brown SILT, trace fine SAND, trace CLAY (moist, stiff)		11
3									
4	3	4.0	6.0	SS/24	4-3-2-3		Brown SILT, trace CLAY (moist, medium stiff)		5
5									
6	4	6.0	8.0	SS/24	1-1-1-1		Same as above (wet, soft)		2
7									
8	5	8.0	10.0	SS/14	2-2-4-3		Brown cmf SAND and mf GRAVEL, little SILT, trace CLAY (wet, loose)		6
9									
10									
11									
12									
13									
14	6A	13.5	14.0	SS/18	49-27-40		Brown SILT, little CLAY, trace cmf SAND (wet, hard)		67
14	6B	14.0	15.0				Brown/Grey ROCK fragments mixed with cmf SAND, mf GRAVEL (wet)		
15									
16									
17									
18	7	18.5	20.0	SS/18	15-25-41		Brown cmf SAND, little ROCK fragments, trace mf GRAVEL (wet, very compact)		66
19									
20							Bottom of Boring at 20'		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-231</b>
<b>Page No.</b>	1 of 2
<b>Report No.</b>	28062B-01-0523-R1
<b>Date Started</b>	04/25/23
<b>Date Finished</b>	04/25/23
<b>Surface Elev.</b>	388.2'

**Project Name:** Micron Campus, Clay, New York  
**Client:** Ramboll  
**Location:** See Exploration Location Plan

**METHODS OF INVESTIGATION**

**GROUNDWATER OBSERVATIONS**

<b>Driller:</b> G. Richard	<b>Casing:</b> 3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b> C. O'Hara	<b>Casing Hammer:</b>	04/25/23	While Drilling	5.9	13.5
<b>Inspector:</b> A. Sharma, E.I.T.	<b>Other:</b>	04/25/23	Before Casing Removed	9.2	21.6
<b>Drill Rig:</b> CME 55	<b>Soil Sampler:</b> 2" OD Split Barrel	04/25/23	After Casing Removed	2.5	out
<b>Type:</b> ATV	<b>Hammer Wt:</b> 140 lbs.	04/25/23	After Casing Removed	caved @ 9.4	out
<b>Rod Size:</b> AWJ	<b>Hammer Fall:</b> 30 in.				

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/12	WH-1-1-2		Topsoil and Organic Matter (moist)	2	
1	1B	0.5	2.0				Brown SILT, little cmf SAND, trace CLAY (soft, moist)		
2	2	2.0	4.0	SS/24	3-3-3-3		Brown SILT, trace CLAY (medium stiff, moist)	6	
3									
4	3	4.0	6.0	SS/20	2-2-1-3		Same as above (soft, wet)	3	
5									
6	4	6.0	8.0	SS/24	3-4-3-4		Same as above (wet, medium stiff) PP=0.5, 1.25, 1.25	7	
7									
8	5	8.0	10.0	SS/24	3-5-6-7		Brown SILT, trace cmf SAND, trace CLAY (moist, stiff)	11	
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/18	2-4-10		Brown/Grey SILT, trace mf SAND, trace CLAY (wet, stiff)  Augered Hard at 15'	14	
15									
16									
17									
18									
19	7	18.5	20.0	SS/15	7-5-3		Grey cmf SAND and mf GRAVEL, little SILT (wet, medium stiff)	8	
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

PP=Pocket Penetrameter Results in tsf

**Remarks:**



**CME**  
Associates, Inc.

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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-231</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1

**LOG OF BORING SAMPLES**


**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	21.6	22.1	SS/6	100/6"		Grey cmf SAND and mf GRAVEL, trace ROCK fragments (wet, very compact)		100+
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

Bottom of Boring at 22.1'


 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-232 <b>Page No.</b> 1 of 1 <b>Report No.</b> 28062B-01-0523-R1					
<b>Project Name:</b>	Micron Campus, Clay, New York		<b>Date Started</b>	04/25/23					
<b>Client:</b>	Ramboll		<b>Date Finished</b>	04/25/23					
<b>Location:</b>	See Exploration Location Plan		<b>Surface Elev.</b>	387.8'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	G. Richard	<b>Casing:</b>	3 1/4" ID H.S.A.						
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>	<b>Date</b>	<b>Time</b>					
<b>Inspector:</b>	A. Sharma, E.I.T.	<b>Other:</b>	04/25/23	While Drilling					
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	04/25/23	Before Casing Removed					
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	04/25/23	After Casing Removed					
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	04/25/23	After Casing Removed					
				Depth (Ft.)					
				Casing At (Ft.)					
				4.5					
				5.9					
				1.5					
				caved @ 8.4					
				out					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/18	WH-WH-2-2		Topsoil and Organic Matter (moist)		2
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace cmf SAND (moist, soft) PP=0.75, 0.5, 1		
2	2	2.0	4.0	SS/21	2-3-2-3		Similar as above (moist, medium stiff)		5
3									
4	3	4.0	6.0	SS/12	1-1-1-2		Similar as above (wet, soft)		2
5									
6	4	6.0	8.0	SS/24	2-3-4-5		Brown SILT, trace CLAY (moist, medium stiff)		7
7									
8	5	8.0	10.0	SS/24	5-5-4-5		Brown SILT, trace CLAY, trace fine GRAVEL (moist, stiff)		9
9									
10									
11									
12									
13	6	13.5	15.0	SS/18	1-2-2		Grey SILT, trace CLAY (wet, soft)		4
14									
15									
16									
17									
18	7	18.5	19.2	SS/8	4-100/2"		Dark Grey ROCK chips, fragments & flour (wet) Auger refusal at 19.2'		100+
19									
20							Bottom of Boring at 19.2'		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

PP=Pocket Penetrameter Results in tsf


**Remarks:**



 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-233 <b>Page No.</b> 1 of 1 <b>Report No.</b> 28062B-01-0523-R1					
<b>Project Name:</b>	Micron Campus, Clay, New York		<b>Date Started</b>	04/26/23					
<b>Client:</b>	Ramboll		<b>Date Finished</b>	04/26/23					
<b>Location:</b>	See Exploration Location Plan		<b>Surface Elev.</b>	389.9'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	G. Richard	<b>Casing:</b>	3 1/4" ID H.S.A.						
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>	<b>Date</b>	<b>Time</b>					
<b>Inspector:</b>	A. Sharma, E.I.T.	<b>Other:</b>	04/26/23	While Drilling					
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	04/26/23	Before Casing Removed					
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	04/26/23	After Casing Removed					
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	04/26/23	After Casing Removed					
				caved @ 4.8					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/12	WH-1-2-3		Topsoil and Organic Matter (moist)		3
1	1B	0.5	2.0				Brown SILT, trace fine SAND, trace CLAY (moist, soft)		
2	2	2.0	4.0	SS/20	5-5-5-5		Brown SILT, trace CLAY (moist, stiff) PP=1.5, 0.5, 1.8		10
3									
4	3	4.0	6.0	SS/14	3-3-2-2		Similar as above (wet, medium stiff)		5
5									
6	4	6.0	8.0	SS/16	2-3-3-4		Brown SILT, little cmf SAND, trace CLAY, trace mf GRAVEL (moist, medium stiff)		6
7									
8	5	8.0	10.0	SS/16	3-2-3-2		Brown SILT, little CLAY (moist, medium stiff)		5
9									
10							Augered hard at 10'		
11									
12									
13									
14	6	13.5	15.0	SS/18	19-31-42		Brown SILT and cmf SAND, trace fine GRAVEL (wet, hard)		73
15							Auger refusal at 15.5'		
16	7	15.5	17.0	SS/18	55-20-25		Grey ROCK chips, fragments & flour (moist)		45
17							Bottom of Boring at 17.0'		
18									
19									
20									


SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod  
 PP=Pocket Penetrameter Results in tsf

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>				<b>Boring No.</b>	<b>B-234</b>		
						<b>Page No.</b>	1 of 1		
						<b>Report No.</b>	28062B-01-0523-R1		
<b>Project Name:</b>	Micron Campus, Clay, New York				<b>Date Started</b>	04/26/23			
<b>Client:</b>	Ramboll				<b>Date Finished</b>	04/26/23			
<b>Location:</b>	See Exploration Location Plan				<b>Surface Elev.</b>	389.9'			
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b>	G. Richard	<b>Casing:</b>	3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>							04/26/23
<b>Inspector:</b>	A. Sharma, E.I.T.	<b>Other:</b>			04/26/23	Before Casing Removed	4.6	18.6	
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	2" OD Split Barrel		04/26/23	After Casing Removed	3.8	out	
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.		04/26/23	After Casing Removed	caved @ 13.9	out	
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.						
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5	SS/12	WH-1-2-3		Topsoil and Organic Matter (moist)		3
1	1B	0.0	2.0				Brown SILT, trace fine SAND, trace CLAY, trace ORGANIC Materials (moist, soft)		
2	2	2.0	4.0	SS/24	3-3-3-4		Brown SILT, trace CLAY (moist, medium stiff)		6
3									
4	3	4.0	6.0	SS/16	3-2-3-2		Brown SILT, little mf GRAVEL, trace CLAY, trace ROOT Hairs (wet, medium stiff)		5
5									
6	4	6.0	8.0	SS/24	5-5-5-4		Brown SILT, trace CLAY (moist, stiff)		10
7									
8	5	8.0	10.0	SS/24	3-3-3-5		Same as above (wet, medium stiff)		6
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/18	3-3-3-3		Same as above (wet, medium stiff)		6
15									
16									
17									
18									
19	7	18.5	19.8	SS/14	11-9-100/4"		Grey SILT, some mf GRAVEL, with ROCK fragments & flour (wet, hard)		100+
20							Auger refused at 20.1'		

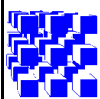
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-235 <b>Page No.</b> 1 of 2 <b>Report No.</b> 28062B-01-0523-R1						
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 04/26/23			<b>Surface Elev.:</b> 390.4'						
<b>Client:</b> Ramboll		<b>Date Finished:</b> 04/26/23									
<b>Location:</b> See Exploration Location Plan											
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>							
<b>Driller:</b> G. Richard		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>	
<b>Driller:</b> C. O'Hara		<b>Casing Hammer:</b>		04/26/23		While Drilling		10.3		13.5	
<b>Inspector:</b> A. Sharma, E.I.T.		<b>Other:</b>		04/26/23		Before Casing Removed		16.6		20.9	
<b>Drill Rig:</b> CME 55		<b>Soil Sampler:</b> 2" OD Split Barrel		04/26/23		After Casing Removed		5.1		out	
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		04/26/23		After Casing Removed		caved @ 7.0		out	
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.									
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
0	1A	0.0	0.5	SS/14	1-3-5-6		Topsoil and Organic Matter (moist)				8
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace fine SAND (moist, stiff)				
2	2	2.0	4.0	SS/15	4-4-4-3		Similar as above (wet, stiff)				8
3											
4	3	4.0	6.0	SS/24	2-2-2-2		Grey/Brown SILT, trace cmf SAND, trace fine GRAVEL, trace CLAY (wet, medium stiff)				4
5											
6	4	6.0	8.0	SS/20	2-3-3-3		Brown SILT, trace fine GRAVEL, trace CLAY (wet, medium stiff)				6
7											
8	5	8.0	10.0	SS/24	3-2-3-3		Brown SILT, trace cmf SAND, trace CLAY (wet, medium stiff)				5
9											
10											
11											
12											
13											
14	6	13.5	15.0	SS/15	6-21-42		Brown cmf SAND and mf GRAVEL, trace SILT (wet, very compact)				63
15											
16											
17											
18											
19	7	18.5	20.0	SS/11	3-3-3		Grey/Brown cmf SAND and mf GRAVEL, trace SILT (wet, loose)				6
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-235</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	20.9	21.0	SS/1	100/1"		<i>Auger refusal at 20.7'</i> Grey ROCK chips & flour (wet)		100+
21							Bottom of Boring at 21'		
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
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36									
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38									
39									
40									
41									
42									
43									
44									
45									

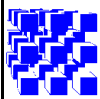
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-236 <b>Page No.</b> 1 of 2 <b>Report No.</b> 28062B-01-0523-R1					
<b>Project Name:</b>	Micron Campus, Clay, New York		<b>Date Started</b>	04/26/23					
<b>Client:</b>	Ramboll		<b>Date Finished</b>	04/26/23					
<b>Location:</b>	See Exploration Location Plan		<b>Surface Elev.</b>	394'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	G. Richards	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>					
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>		<b>Time</b>					
<b>Inspector:</b>	A. Sharma, E.I.T.	<b>Other:</b>		<b>Depth (Ft.)</b>					
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	2" OD Split Barrel	<b>Casing At (Ft.)</b>					
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	04/26/23					
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.	04/26/23					
				While Drilling					
				Before Casing Removed					
				After Casing Removed					
				After Casing Removed					
				caved @ 6.3					
				out					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/16	WH-1-2-4		Topsoil and Organic Matter (moist)		3
1	1B	0.5	2.0				Brown SILT, trace fine SAND, trace CLAY (moist, soft)		
2	2	2.0	4.0	SS/18	5-5-4-4		Brown SILT, trace CLAY (wet, stiff)		9
3									
4	3	4.0	6.0	SS/15	2-4-4-5		Brown SILT and cmf SAND, little fine GRAVEL (wet, stiff)		8
5									
6	4A	6.0	7.0	SS/18	9-12-69-12		Brown SILT, trace cmf SAND, trace fine GRAVEL (moist, hard)		81
7	4B	7.0	8.0				Grey mf GRAVEL and cmf SAND, trace SILT (wet)		
8	5	8.0	10.0	SS/18	18-27-20-21		Grey/Reddish mf GRAVEL and cmf SAND, trace SILT (wet, compact)		47
9							Augered hard at 10.0'		
10									
11									
12									
13									
14	6	13.5	15.0	SS/14	16-10-12		Brown cmf SAND and mf GRAVEL, little SILT (wet, medium compact)		22
15									
16									
17									
18									
19	7	18.5	20.0	SS/-	8-14-18		Grey cmf SAND, little fine GRAVEL, trace SILT (wet, compact)		32
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-236</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**


Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.4	23.5		100/1"				100+
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

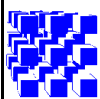
Auger refusal at 23.3'

Grey ROCK fragments & flour (wet)  
Bottom of Boring at 23.5'

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-239 <b>Page No.</b> 1 of 2 <b>Report No.</b> 28062B-01-0523-R1					
<b>Project Name:</b>	Micron Campus, Clay, New York		<b>Date Started</b>	04/26/23					
<b>Client:</b>	Ramboll		<b>Date Finished</b>	04/26/23					
<b>Location:</b>	See Exploration Location Plan		<b>Surface Elev.</b>	393'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	G. Richard	<b>Casing:</b>	3 1/4" ID H.S.A.						
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>	<b>Date</b>	<b>Time</b>					
<b>Inspector:</b>	A. Sharma, E.I.T.	<b>Other:</b>	04/26/23	While Drilling					
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	04/26/23	Before Casing Removed					
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	04/26/23	After Casing Removed					
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	04/26/23	After Casing Removed					
				Depth (Ft.)					
				Casing At (Ft.)					
				18.5					
				4.5					
				3.6					
				caved @ 3.9					
				out					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/16	WH-1-1-3		Topsoil and Organic Matter (moist)		2
1	1B	0.5	2.0				Brown SILT, trace fine SAND, trace CLAY (moist, soft)		
2	2	2.0	4.0	SS/22	4-4-4-4		Same as above (wet, medium stiff)		8
3									
4	3	4.0	6.0	SS/24	2-3-2-2		Brown SILT, trace CLAY (wet, medium stiff)		5
5									
6	4	6.0	8.0	SS/24	2-2-2-3		Same as above (wet, medium stiff)		4
7									
8	5	8.0	10.0	SS/21	2-2-5-13		Brown SILT, trace cmf SAND, trace cmf GRAVEL, trace CLAY (moist, medium stiff)		7
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/6	11-11-8		Grey ROCK fragments and ROCK flour, little SILT, trace mf GRAVEL (moist, medium compact)		19
15									
16									
17									
18									
19	7	18.5	20.0	SS/5	3-6-9		Grey SILT and cmf SAND, little mf GRAVEL (wet, stiff)		15
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
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Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-239</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.5	23.5	SS/0	100/0"				100+
21									
22									
23									
24									
25									
26									
27									
28									
29									
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31									
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35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									


-----  
*Augered hard at 23.4' and refused at 23.5'*

*Grey ROCK fragments at tip of spoon*  
Bottom of Boring at 23.5'

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

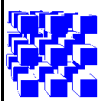
**Remarks:**



 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-240 <b>Page No.</b> 1 of 2 <b>Report No.</b> 28062B-01-0523-R1					
<b>Project Name:</b>	Micron Campus, Clay, New York		<b>Date Started</b>	04/27/23					
<b>Client:</b>	Ramboll		<b>Date Finished</b>	04/27/23					
<b>Location:</b>	See Exploration Location Plan		<b>Surface Elev.</b>	391.4'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	G. Richard	<b>Casing:</b>	3 1/4" ID H.S.A.						
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>	<b>Date</b>	<b>Time</b>					
<b>Inspector:</b>	A. Sharma, E.I.T.	<b>Other:</b>	04/27/23	While Drilling					
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	04/27/23	Before Casing Removed					
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	04/27/23	After Casing Removed					
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	04/27/23	After Casing Removed					
				caved @ 4.1					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/17	WH-2-3-5		Topsoil and Organic Matter (moist)		5
1	1B	0.5	2.0				Brown SILT, trace fine SAND, trace CLAY (moist, medium stiff)		
2	2	2.0	4.0	SS/15	4-4-4-3		Brown SILT, trace CLAY (wet, stiff)		8
3									
4	3	4.0	6.0	SS/23	2-3-3-3		Similar as above (wet, medium stiff)		6
5									
6	4	6.0	8.0	SS/24	3-3-2-3		Similar as above (wet, medium stiff)		5
7									
8	5	8.0	10.0	SS/24	WH-2-3-3		Brown SILT, trace fine SAND, trace CLAY (wet, medium stiff)		5
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/14	8-8-10		Brown SILT, some cmf SAND, little mf GRAVEL (moist, very stiff)		18
15							<i>Augered hard at 16.9' (possible cobbles)</i>		
16									
17									
18									
19	7	18.5	20.0	SS/13	4-3-7		Grey cmf SAND and mf GRAVEL, some SILT (wet, medium compact)		10
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
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6035 Corporate Drive  
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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-240</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.5	24.8	SS/14	44-63-100/4"		Grey cmf SAND and mf GRAVEL, trace SILT, trace ROCK fragments & flour (moist, very compact)	100+	
21									
22									
23									
24									
25									
26							Bottom of Boring at 24.8'		
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

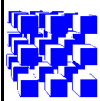
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-241 <b>Page No.</b> 1 of 2 <b>Report No.</b> 28062B-01-0523-R1					
<b>Project Name:</b>	Micron Campus, Clay, New York		<b>Date Started</b>	04/27/23					
<b>Client:</b>	Ramboll		<b>Date Finished</b>	04/27/23					
<b>Location:</b>	See Exploration Location Plan		<b>Surface Elev.</b>	393.5'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	G. Richard	<b>Casing:</b>	3 1/4" ID H.S.A.						
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>	<b>Date</b>	<b>Time</b>					
<b>Inspector:</b>	A. Sharma, E.I.T.	<b>Other:</b>	04/27/23	While Drilling					
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	04/27/23	Before Casing Removed					
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	04/27/23	After Casing Removed					
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	04/27/23	After Casing Removed					
				caved @ 5.1					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/22	1-1-1-5		Topsoil and Organic Matter (moist)		2
1	1B	0.5	2.0				Brown SILT, little fine SAND, trace CLAY (moist, soft)		
2	2	2.0	4.0	SS/13	5-4-4-4		Brown SILT, trace cmf SAND, trace fine GRAVEL, trace CLAY (moist, medium stuff)		8
3									
4	3	4.0	6.0	SS/18	WH-WH-WH-1		Brown SILT and cmf SAND, trace mf GRAVEL (wet, very soft)		0
5									
6	4	6.0	8.0	SS/20	6-15-9-9		Brown cmf SAND, some mf GRAVEL, little SILT (wet, medium compact)		24
7									
8	5	8.0	10.0	SS/15	28-19-19-36		Brown cmf SAND and mf GRAVEL, trace SILT (moist, compact)		38
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/17	12-10-13		Similar as above (wet, medium compact)		23
15									
16									
17									
18									
19	7	18.5	20.0	SS/-	48-73-53		Grey/Reddish mf GRAVEL and cmf SAND, trace SILT, trace ROCK fragments (wet, very compact)		126
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-241</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20									
21									
22									
23	8	23.5	25.5	SS/13	WH-1-19-38		Grey cmf SAND and mf GRAVEL (wet, medium compact)		20
24									
25	9	25.5	26.7	SS/14	53-84-100/2"		Grey cmf SAND and mf GRAVEL, trace ROCK fragments & flour (wet, very compact) <i>Auger refusal at 26.7'</i>		100+
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-299A</b>
<b>Page No.</b>	1 of 2
<b>Report No.</b>	28062B-01-0523-R1
<b>Date Started</b>	05/04/23
<b>Date Finished</b>	05/04/23
<b>Surface Elev.</b>	387.7'

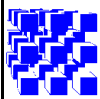
**Project Name:** Micron Campus, Clay, New York  
**Client:** Ramboll  
**Location:** See Exploration Location Plan

METHODS OF INVESTIGATION		GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	G. Richards	<b>Casing:</b>	3 1/4" ID H.S.A.		
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>
<b>Inspector:</b>	D. MacDoughall	<b>Other:</b>	05/04/23	While Drilling	none noted
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	05/05/23	Before Casing Removed	7.3
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	05/05/23	After Casing Removed	none noted
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	05/05/23	After Casing Removed	out

LOG OF BORING SAMPLES					VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5	SS/18	WH-1-2-3		Topsoil and Organic Matter (moist)		3
1	1B	0.5	2.0				Brown SILT, some mf SAND, trace CLAY (moist, medium stiff)		
2	2	2.0	4.0	SS/24	2-3-2-2		Brown SILT, some CLAY, trace fine SAND (wet, medium stiff) <i>Shelby Tube sample obtained from 3 to 5 feet in a separate borehole at 5 feet offset</i>		5
3							LL=28 P1=9 MC=30.7%		
4	3	4.0	6.0	SS/24	2-3-3-4		Brown SILT, trace fine SAND (wet, medium stiff)		6
5									
6	4	6.0	8.0	SS/24	3-4-4-5		Brown SILT, trace cmf SAND (wet, medium stiff)		8
7									
8	5	8.0	10.0	SS/16	4-8-9-5		Brown SILT, trace cmf SAND, trace CLAY (wet, very stiff)		17
9									
10	6	10.0	12.0	SS/24	3-4-2-3		Brown/Grey SILT, trace mf SAND, trace CLAY (wet, medium stiff)		6
11									
12	7	12.0	14.0	SS/24	WH-2-1-2		Grey SILT, some CLAY, trace fine SAND (wet, soft) LL=20 P1=5 MC=27%		3
13									
14	8	14.0	16.0	SS/24	1-1-1-5		Grey CLAY and SILT, trace fine SAND (wet, soft) <i>Shelby Tube sampling attempted from 14 to 16 feet in a separate borehole at 5 feet offset - No Recovery</i>		2
15							LL=30 P1=13 MC=27.9%		
16	9	16.0	18.0	SS/7	7-8-5-6		Grey cmf SAND, some SILT, trace fine GRAVEL (wet, medium compact)		13
17									
18									
19	10	18.5	20.0	SS/10	WH-2-2		Grey mf SAND, trace SILT, trace fine GRAVEL, trace CLAY (wet, medium stiff)		4
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
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6035 Corporate Drive  
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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-299A</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20									
21							<i>Augered hard at 21.5'</i>		
22	11	22.3	22.3	SS/1	100/0"		Grey ROCK fragments (wet)		100+
23									
24							Bottom of Boring at 22.3'		
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-305	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-01-0523-R1		
<b>Project Name:</b> Micron Campus, Clay, New York					<b>Date Started</b> 05/04/23				
<b>Client:</b> Ramboll					<b>Date Finished</b> 05/04/23				
<b>Location:</b> See Exploration Location Plan					<b>Surface Elev.</b> 388.1'				
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b> G. Richards		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> C. O'Hara		<b>Casing Hammer:</b>		05/04/23	While Drilling	none noted	18.5		
<b>Inspector:</b> D. MacDoughall		<b>Other:</b>		05/04/23	Before Casing Removed	4.9	23.5		
<b>Drill Rig:</b> CME 55		<b>Soil Sampler:</b> 2" OD Split Barrel		05/04/23	After Casing Removed	none noted	out		
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		05/04/23	After Casing Removed				
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1A	0.0	0.5	SS/12	WH-WH-2-3	---	Topsoil and Organic Matter (moist)		2
1	1B	0.5	2.0				Brown SILT, trace mf SAND, trace CLAY (moist, soft) PP= 1.75, 2.5, 2.5		
2	2	2.0	4.0	SS/21	4-5-4-5		Brown SILT, trace CLAY, trace mf SAND (moist, stiff)		9
3									
4	3A	4.0	5.0	SS/24	4-6-6-7		Brown SILT, some mf SAND, trace CLAY (wet, stiff)		12
5	3B	5.0	6.0				Brown SILT, little mf SAND, trace CLAY (wet, stiff)		
6	4	6.0	8.0	SS/20	4-5-4-6		Brown SILT, trace mf SAND (wet, stiff)		9
7									
8	5	8.0	10.0	SS/18	4-5-6-5		Brown SILT, little cmf SAND, trace CLAY (wet, stiff)		11
9									
10	6	10.0	12.0	SS/22	5-4-4-4		Grey SILT, trace CLAY (wet, stiff)		8
11									
12	7	12.0	14.0	SS/20	1-4-7-5		Grey SILT, trace fine GRAVEL, trace cmf SAND (moist, stiff)		11
13									
14									
15									
16									
17									
18									
19	8	18.5	20.0	SS/18	WH-2-11		Grey SILT, trace cmf SAND, trace CLAY, trace fine GRAVEL (wet, moist)		13
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

PP=Pocket Penetrameter Results in tsf

**Remarks:**



**CME**  
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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-305</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1

**LOG OF BORING SAMPLES**


**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %		
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%			
20	9	23.5	24.8	SS/15	8-29-100/3"				100+		
21											
22											
23											
24										Grey ROCK fragments, trace SILT(wet)	
25										Bottom of Boring at 24.8'	
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-317					
				<b>Page No.</b> 1 of 1					
				<b>Report No.</b> 28062B-01-0523-R1					
<b>Project Name:</b>	Micron Campus, Clay, New York			<b>Date Started</b> 04/27/23					
<b>Client:</b>	Ramboll			<b>Date Finished</b> 04/27/23					
<b>Location:</b>	See Exploration Location Plan			<b>Surface Elev.</b> 392.9'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	G. Richard	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>					
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>		<b>Time</b>					
<b>Inspector:</b>	A. Sharma, E.I.T.	<b>Other:</b>		<b>Depth (Ft.)</b>					
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	2" OD Split Barrel	<b>Casing At (Ft.)</b>					
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	04/27/23					
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.	04/27/23					
			04/27/23	While Drilling					
			04/27/23	Before Casing Removed					
			04/27/23	After Casing Removed					
			04/27/23	After Casing Removed					
				caved @ 7.6					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/18	WH-1-2-3		Topsoil and Organic Matter (moist)		3
1	1B	0.5	2.0				Brown SILT, trace CLAY (moist, soft)		
2	2	2.0	4.0	SS/19	3-4-4-3		Similar as above (wet, stiff)		8
3									
4	3	4.0	6.0	SS/24	3-4-3-2		Similar as above (wet, medium stiff)		7
5									
6	4	6.0	8.0	SS/23	2-2-1-2		Brown SILT, trace fine SAND, trace CLAY (wet, soft)		3
7									
8	5	8.0	10.0	SS/22	2-1-1-6		Greyish Pink SILT, some cmf SAND, trace mf GRAVEL, trace CLAY, (wet, soft)		2
9									
10									
11	6	11.6	11.7	SS/1	100/1"		Auger refusal at 11.6'		
12							Grey ROCK chips, fragments & flour (wet)		100+
13							Bottom of Boring at 11.7'		
14									
15									
16									
17									
18									
19									
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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 Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-333</b>
<b>Page No.</b>	1 of 1
<b>Report No.</b>	28062B-01-0523-R1
<b>Date Started</b>	05/02/23
<b>Date Finished</b>	05/02/23
<b>Surface Elev.</b>	394.9'


<b>Project Name:</b>	Micron Campus, Clay, New York
<b>Client:</b>	Ramboll
<b>Location:</b>	See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	G. Richard	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>		05/02/23	While Drilling	13.8	18.5
<b>Inspector:</b>		<b>Other:</b>		05/02/23	Before Casing Removed	none noted	18.5
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	2" OD Split Barrel	05/02/23	After Casing Removed	none noted	out
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	05/02/23	After Casing Removed		
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5	SS/10	WH-WH-1-4		Topsoil and Organic Matter (moist)		1
1	1B	0.5	2.0				Brown SILT, trace mf SAND, trace ROOTS (moist, very soft)		
2	2	2.0	4.0	SS/14	4-5-4-4		Similar soil as above (moist, stiff)		9
3									
4	3	4.0	6.0	SS/8	2-2-2-2		Brown SILT, trace mf SAND (wet, medium stiff)		4
5									
6	4	6.0	8.0	SS/17	1-1-5-3		Brown SILT, little mf SAND, trace mf GRAVEL (wet, medium stiff)		6
7									
8	5	8.0	10.0	SS/19	2-12-34-23		Brown cmf SAND, some mf GRAVEL, little SILT (wet, compact)		46
9									
10									
11									
12									
13	6A	13.5	15.0	SS/14	11-21-36		Dark Grey/Brown SILT and cmf SAND, trace mf GRAVEL, trace CLAY (wet, hard)		57
14	6B	18.5	20.0				Grey cmf SAND, little SILT, trace fine GRAVEL (wet, very compact)		
15							<i>Drilled through COBBLE from 15.9' to 16.4'</i>		
16									
17									
18									
19	7	18.5	20.0	SS/18	7-24-41		Grey cmf SAND, trace fine GRAVEL (wet, very compact)		65
20							Bottom of Boring at 20.0'		

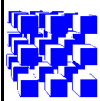
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-334 <b>Page No.</b> 1 of 2 <b>Report No.</b> 28062B-01-0523-R1						
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 05/02/23									
<b>Client:</b> Ramboll		<b>Date Finished:</b> 05/02/23									
<b>Location:</b> See Exploration Location Plan		<b>Surface Elev.:</b> 397.8'									
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>							
<b>Driller:</b> G. Richard		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date:</b>		<b>Time:</b>		<b>Depth (Ft.):</b>		<b>Casing At (Ft.):</b>	
<b>Driller:</b> C. O'Hara		<b>Casing Hammer:</b>		05/02/23		While Drilling					
<b>Inspector:</b>		<b>Other:</b>		05/02/23		Before Casing Removed		1.0		23.5	
<b>Drill Rig:</b> CME 55		<b>Soil Sampler:</b> 2" OD Split Barrel		05/02/23		After Casing Removed		none noted		out	
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		05/02/23		After Casing Removed					
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.									
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
0	1A	0.0	0.5	SS/15	WH-WH-3-3		Topsoil and Organic Matter (moist)				3
1	1B	0.5	2.0				Brown SILT, trace mf SAND (moist, soft)				
2	2	2.0	4.0	SS/21	3-4-4-5		Similar as above (moist, stiff)				8
3											
4	3	4.0	6.0	SS/13	3-2-2-4		Similar as above (wet, medium stiff)				4
5											
6	4	6.0	8.0	SS/24	2-3-3-3		Similar as above (wet, medium stiff)				6
7											
8	5	8.0	10.0	SS/24	1-2-1-3		Similar as above (wet, soft)				3
9											
10											
11											
12											
13											
14	6	13.5	15.0	SS/18	14-18-19		Brown SILT, some mf SAND, trace mf GRAVEL (wet, hard)				37
15											
16											
17											
18											
19	7	18.5	20.0	SS/12	26-43-69		Dark Grey SILT, little cmf GRAVEL, trace cmf SAND (moist, hard)				112
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-334</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20	8	23.5	24.3	SS/10	41-100/2"				100+
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

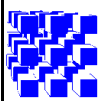
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

		6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-336	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-01-0523-R1
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Client:</b> Ramboll		<b>Location:</b> See Exploration Location Plan		<b>Date Started</b> 05/02/23	<b>Date Finished</b> 05/02/23	<b>Surface Elev.</b> 403.9'	
<b>METHODS OF INVESTIGATION</b>					<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> G. Richards <b>Driller:</b> C. O'Hara <b>Inspector:</b> <b>Drill Rig:</b> CME 55 <b>Type:</b> ATV <b>Rod Size:</b> AWJ		<b>Casing:</b> 3 1/4" ID H.S.A. <b>Casing Hammer:</b> <b>Other:</b> <b>Soil Sampler:</b> 2" OD Split Barrel <b>Hammer Wt:</b> 140 lbs. <b>Hammer Fall:</b> 30 in.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
				05/02/23	While Drilling	7.9	23.5		
				05/02/23	Before Casing Removed	6.1	28.8		
				05/02/23	After Casing Removed	none noted	out		
				05/02/23	After Casing Removed				
<b>LOG OF BORING SAMPLES</b>					<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> <b>From</b> <b>To</b>		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	<b>c - coarse</b> <b>m - medium</b> <b>f - fine</b>	<b>and - 35 to 50% / some - 20 to 35%</b> <b>little - 10 to 20% / trace - 0 to 10%</b>	<b>SPT "N" or RQD %</b>
0	1A	0.0	0.5	SS/10	WH-1-WH-1	-----	Topsoil and Organic Matter (moist)		1
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace fine SAND (moist, soft)		
2	2	2.0	4.0	SS/21	3-3-3-3		Similar as above (moist, medium stiff)		6
3									
4	3	4.0	6.0	SS/24	3-4-6-6		Similar as above (moist, stiff)		10
5									
6	4	6.0	8.0	SS/15	4-4-5-6		Similar as above (wet, stiff)		9
7									
8	5	8.0	10.0	SS/24	4-5-8-11		Similar as above (wet, stiff)		13
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/12	4-3-3		Grey/Brown SILT, trace mf SAND, trace CLAY (wet, medium stiff)		6
15									
16									
17									
18									
19	7	18.5	20.0	SS/6	7-10-12	-----	Brown cmf SAND, little mf GRAVEL, trace SILT (wet, medium compact)		22
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:



**CME**  
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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-336</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20	8	23.5	25.0	SS/10	17-13-17				30
21									
22									
23									
24									
25	9	28.8	29.2	SS/5	100/5"				100+
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



6035 Corporate Drive  
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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-338</b>
<b>Page No.</b>	1 of 2
<b>Report No.</b>	28062B-01-0523-R1
<b>Date Started</b>	05/03/23
<b>Date Finished</b>	05/03/23
<b>Surface Elev.</b>	394.4'

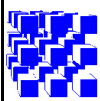
**Project Name:** Micron Campus, Clay, New York  
**Client:** Ramboll  
**Location:** See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	C. O'Hara	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	G. Richard	<b>Casing Hammer:</b>		05/03/23	While Drilling	none noted	18.5
<b>Inspector:</b>	D. MacDougall	<b>Other:</b>		05/03/23	Before Casing Removed	none noted	23.5
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	2" OD Split Barrel	05/03/23	After Casing Removed	none noted	out
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	05/03/23	After Casing Removed		
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5	SS/15	WH-1-2-3		Topsoil and Organic Matter (moist)		3
1	1B	0.5	2.0				Brown SILT, trace mf SAND, trace ROOTS (moist, soft)		
2	2	2.0	4.0	SS/16	2-2-3-3		Brown SILT, trace CLAY, trace fine SAND, (moist, medium stiff)		5
3									
4	3	4.0	6.0	SS/22	4-4-5-6		Similar as above (moist, stiff)		9
5									
6	4	6.0	8.0	SS/16	4-3-3-4		Brown SILT, trace CLAY, trace fine SAND (wet, medium stiff)		6
7									
8	5	8.0	10.0	SS/24	5-5-4-3		Grey SILT, trace cmf SAND, trace CLAY (moist, stiff)		9
9									
10									
11									
12	6	12.0	15.0	SS/28	2-2-2		Grey SILT, some CLAY, trace mf SAND (wet, medium stiff)		4
13									
14									
15									
16									
17									
18									
19	7	18.5	20.0	SS/18	10-27-45		Grey SILT, trace cmf SAND, trace mf GRAVEL (moist, hard)		72
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
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6035 Corporate Drive  
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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-338</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1

**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
20	8	23.5	23.9	SS/5	100/5"				100+
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**





6035 Corporate Drive  
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**SUBSURFACE EXPLORATION  
 TEST BORING LOG**

<b>Boring No.</b>	<b>B-340</b>
<b>Page No.</b>	1 of 2
<b>Report No.</b>	28062B-01-0523-R1
<b>Date Started</b>	05/03/23
<b>Date Finished</b>	05/03/23
<b>Surface Elev.</b>	391.4'

**Project Name:** Micron Campus, Clay, New York  
**Client:** Ramboll  
**Location:** See Exploration Location Plan

METHODS OF INVESTIGATION				GROUNDWATER OBSERVATIONS			
<b>Driller:</b>	C. O'Hara	<b>Casing:</b>	3 1/4" ID H.S.A.	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>
<b>Driller:</b>	G. Richards	<b>Casing Hammer:</b>		05/03/23	While Drilling	none noted	18.5
<b>Inspector:</b>		<b>Other:</b>		05/03/23	Before Casing Removed	3.8	22.5
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	2" OD Split Barrel	05/03/23	After Casing Removed		
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.	05/03/23	After Casing Removed		
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.				

LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL			
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		SPT "N" or RQD %
		From	To				and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		
0	1A	0.0	0.5		WH-1-3-3		Topsoil and Organic Matter (moist)		4
	1B	0.5	2.0				Brown SILT, trace CLAY, trace mf SAND (moist, medium stiff)		
1									
2	2	2.0	4.0	SS/14	2-3-2-2		Brown SILT, trace mf SAND, trace CLAY (moist, medium stiff)		5
3									
4	3	4.0	6.0	SS/24	3-4-5-7		Same as above (wet, stiff)		9
5									
6	4	6.0	8.0	SS/20	5-5-5-5		Same as above (wet, stiff)		10
7									
8	5	8.0	10.0	SS/21	4-5-6-5		Grey SILT, trace fine SAND (wet, stiff)		11
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/24	3-1-2		Grey CLAY, trace SILT (wet, soft)		3
15									
16									
17									
18									
19	7	18.5	20.0	SS/-	4-5-7		Grey mf GRAVEL, some cmf SAND, trace SILT (wet, medium compact)		12
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



**CME**  
Associates, Inc.

6035 Corporate Drive  
East Syracuse, NY 13057  
Phone: 315-701-0522

**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-340</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1

**LOG OF BORING SAMPLES**


**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	22.5	22.9	SS/5	100/5"				100+
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod


**Remarks:**

-----  
Augered Hard at 22.4'  
Grey ROCK chips and fragments (wet)  
-----  
Bottom of Boring at 22.9'

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b> B-342					
				<b>Page No.</b> 1 of 1					
				<b>Report No.</b> 28062B-01-0523-R1					
<b>Project Name:</b>	Micron Campus, Clay, New York			<b>Date Started</b> 05/04/23					
<b>Client:</b>	Ramboll			<b>Date Finished</b> 05/04/23					
<b>Location:</b>	See Exploration Location Plan			<b>Surface Elev.</b> 391.5'					
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	G. Richards	<b>Casing:</b>	3 1/4" ID H.S.A.						
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>	<b>Date</b>	<b>Time</b>					
<b>Inspector:</b>	D. MacDoughall	<b>Other:</b>	05/04/23	While Drilling					
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	05/04/23	Before Casing Removed					
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	05/04/23	After Casing Removed					
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	05/04/23	After Casing Removed					
				Depth (Ft.)					
				Casing At (Ft.)					
				3.2					
				2.5					
				2.8					
				caved @ 6.5					
				out					
				out					
<b>LOG OF BORING SAMPLES</b>			<b>VISUAL CLASSIFICATION OF MATERIAL</b>						
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/17	WH-1-2-2		Topsoil and Organic Matter (moist)		3
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace mf SAND (moist, soft)		
2	2	2.0	4.0	SS/22	3-5-5-4		Brown SILT, trace mf SAND, trace CLAY (moist, stiff)		10
3									
4	3	4.0	6.0	SS/17	2-1-1-2		Brown SILT, trace CLAY, trace mf SAND (wet, soft)		2
5									
6	4	6.0	8.0	SS/24	3-4-4-5		Brown SILT, trace CLAY (wet, stiff)		8
7									
8	5	8.0	10.0	SS/18	2-4-7-6		Grey SILT, little cmf SAND, trace CLAY, trace fine GRAVEL (wet, stiff)		11
9									
10	6	10.0	12.0	SS/18	3-2-2-3		Grey SILT, trace CLAY (wet, medium stiff)		4
11									
12	7	12.0	14.0	SS/24	WH-WH-WH-4		Grey SILT, little cmf SAND, trace CLAY (wet, very soft)		0
13									
14	8	14.0	16.0	SS/8	5-10-8-7		Grey SILT and mf GRAVEL, little CLAY, trace cmf SAND (wet, very stiff)		18
15									
16									
17									
18	9	18.0	19.7	SS/14	5-63-100/2"		Black ROCK fragments, trace cmf SAND, trace SILT (wet)		100+
19							Auger refusal at 19.8'		
20							Bottom of Boring at 19.8'		

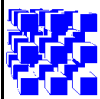
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-344 <b>Page No.</b> 1 of 2 <b>Report No.</b> 28062B-01-0523-R1				
<b>Project Name:</b>	Micron Campus, Clay, New York			<b>Date Started</b>	05/03/23				
<b>Client:</b>	Ramboll			<b>Date Finished</b>	05/03/23				
<b>Location:</b>	See Exploration Location Plan			<b>Surface Elev.</b>	395.8'				
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b>	C. O'Hara	<b>Casing:</b>	3 1/4" ID H.S.A.		<b>Date</b>				
<b>Driller:</b>	G. Richard	<b>Casing Hammer:</b>			<b>Time</b>				
<b>Inspector:</b>	D. MacDougall	<b>Other:</b>			<b>Depth (Ft.)</b>				
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	2" OD Split Barrel		<b>Casing At (Ft.)</b>				
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.		05/03/23				
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.		05/03/23				
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/18	WH-1-3-3		Topsoil and Organic Matter (moist)		4
1	1B	0.5	2.0				Brown SILT, trace CLAY, trace mf SAND (moist, medium stiff)		
2	2	2.0	4.0	SS/16	3-2-2-4		Brown SILT, trace CLAY (wet, medium stiff)		4
3									
4	3	4.0	6.0	SS/19	2-6-4-5		Same as above (wet, stiff)		10
5									
6	4	6.0	8.0	SS/24	2-6-5-4		Brown SILT, trace fine SAND, trace CLAY (moist, stiff)		11
7									
8	5	8.0	10.0	SS/16	4-1-4-8		Grey SILT, trace fine SAND (wet, medium stiff)		5
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/17	WH-2-4		Brown mf SAND, trace SILT, trace fine GRAVEL (wet, loose)		6
15									
16									
17									
18									
19	7	18.5	20.0	SS/19	9-5-4		Same as above (wet, loose)		9
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-344</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.5	25.0	SS/14	23-28-50		Grey mf GRAVEL and cmf SAND, trace SILT (wet, very compact)	78	
21									
22									
23									
24									
25	9	28.5	28.6	SS/1	100/1"		Grey ROCK chips and fragments (wet)	100+	
26									
27									
28									
29									
30	Bottom of Boring at 28.6'								
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-346				
					<b>Page No.</b> 1 of 2				
					<b>Report No.</b> 28062B-01-0523-R1				
<b>Project Name:</b>	Micron Campus, Clay, New York			<b>Date Started</b>	04/28/23				
<b>Client:</b>	Ramboll			<b>Date Finished</b>	04/28/23				
<b>Location:</b>	See Exploration Location Plan			<b>Surface Elev.</b>	403.9'				
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b>	G. Richard	<b>Casing:</b>	3 1/4" ID H.S.A.		<b>Date</b>				
<b>Driller:</b>	C. O'Hara	<b>Casing Hammer:</b>			<b>Time</b>				
<b>Inspector:</b>	A. Sharma, E.I.T.	<b>Other:</b>			<b>Depth (Ft.)</b>				
<b>Drill Rig:</b>	CME 55	<b>Soil Sampler:</b>	2" OD Split Barrel		<b>Casing At (Ft.)</b>				
<b>Type:</b>	ATV	<b>Hammer Wt:</b>	140 lbs.		04/27/23				
<b>Rod Size:</b>	AWJ	<b>Hammer Fall:</b>	30 in.		04/28/23				
				04/28/23	While Drilling				
				04/28/23	Before Casing Removed				
				04/28/23	After Casing Removed				
				04/28/23	After Casing Removed				
					none noted				
					19.1				
					4.2				
					caved @ 4.5				
					out				
					out				
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
		From	To						
0	1A	0.0	0.5	SS/15	WH-WH-2-2		Topsoil (moist)		2
1	1B	0.5	2.0				Brown SILT, trace fine SAND, trace CLAY (moist, soft)		
2	2	2.0	4.0	SS/18	3-3-3-3		Brown SILT, trace CLAY (moist, medium stiff)		6
3									
4	3	4.0	6.0	SS/24	3-2-3-4		Same as above (wet, medium stiff)		5
5									
6	4	6.0	8.0	SS/14	6-6-5-6		Same as above (wet, stiff)		11
7									
8	5	8.0	10.0	SS/24	5-7-6-6		Brown SILT, trace CLAY, trace fine SAND (wet, stiff)		13
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/15	8-7-5		Grey cmf SAND, some SILT, trace mf GRAVEL (wet, medium compact)		12
15									
16									
17									
18									
19	7	18.5	20.0	SS/4	12-13-13		Grey SILT and mf GRAVEL, some cmf SAND (wet, very stiff)		26
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-346</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	Visual Classification		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	21.7	21.7		100/0"		<i>Augered hard at 21.3'</i>		100+
21							<i>ROCK chips and fragments in tip of spoon</i>		
22							<i>Bottom of Boring at 21.7'</i>		
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

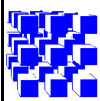
**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-347 <b>Page No.</b> 1 of 2 <b>Report No.</b> 28062B-01-0523-R1						
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 04/28/23			<b>Surface Elev.:</b> 401.7'						
<b>Client:</b> Ramboll		<b>Date Finished:</b> 04/28/23									
<b>Location:</b> See Exploration Location Plan											
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>							
<b>Driller:</b> G. Richard		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>	
<b>Driller:</b> C. O'Hara		<b>Casing Hammer:</b>		04/28/23		While Drilling		none noted			
<b>Inspector:</b> A. Sharma, E.I.T.		<b>Other:</b>		04/28/23		Before Casing Removed		7.4		28.5	
<b>Drill Rig:</b> CME 55		<b>Soil Sampler:</b> 2" OD Split Barrel		04/28/23		After Casing Removed		2.0		out	
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		04/28/23		After Casing Removed		caved @ 3.0		out	
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.									
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
0	1A	0.0	0.5	SS/13	WH-1-2-4		Topsoil and Organic Matter (moist)				3
1	1B	0.5	2.0				Brown SILT, trace fine SAND, trace CLAY (moist, soft)				
2	2	2.0	4.0	SS/14	5-6-6-7		Similar as above (wet, stiff)				12
3											
4	3A	4.0	5.0	SS/24	2-8-11-12		Grey mf GRAVEL and ROCK fragments, trace cmf SAND (wet, medium compact)				19
5	3B	5.0	6.0				Brown SILT, trace CLAY (wet, very stiff)				
6	4	6.0	8.0	SS/17	5-11-14-14		Same as above (moist, very stiff)				25
7											
8	5	8.0	10.0	SS/14	4-8-4-5		Brown SILT, little CLAY, trace fine SAND (moist, stiff)				12
9											
10											
11											
12											
13											
14	6	13.5	15.0	SS/15	1-1-2		Grey SILT, trace CLAY (moist, soft)				3
15											
16											
17											
18											
19	7	18.5	20.0	SS/14	5-8-6		Grey SILT, trace fine GRAVEL, trace CLAY (moist, stiff)				14
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:





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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-347</b>
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<b>Report No.</b>	28062B-01-0523-R1


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.5	25.0	SS/8	WH-WH-1		Grey SILT, trace cmf SAND, trace fine GRAVEL (wet, very soft)	1	
21									
22									
23									
24									
25	9	28.5	29.2		78-100/2"	-----	Grey ROCK chips, fragments & flour (wet)	100+	
26									
27									
28									
29									
30	Auger refusal at 29.6'								
31	Bottom of Boring at 29.6'								
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-352	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-01-0523-R1		
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 05/04/23			<b>Date Finished:</b> 05/04/23				
<b>Client:</b> Ramboll		<b>Surface Elev.:</b> 388.7'							
<b>Location:</b> See Exploration Location Plan									
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>					
<b>Driller:</b> G. Richards		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b> C. O'Hara		<b>Casing Hammer:</b>		05/04/23	While Drilling	none noted	18.5		
<b>Inspector:</b> D. MacDoughall		<b>Other:</b>		05/04/23	Before Casing Removed	2.5	28.5		
<b>Drill Rig:</b> CME 55		<b>Soil Sampler:</b> 2" OD Split Barrel		05/04/23	After Casing Removed	none noted	out		
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		05/04/23	After Casing Removed				
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.							
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
0	1A	0.0	0.5	SS/17	WH-WH-2-3		Topsoil and Organic Matter (moist)		2
1	1B	0.5	2.0				Brown SILT, trace mf SAND, trace CLAY (moist, soft) PP=1.5, 1.25, 1.25		
2	2	2.0	4.0	SS/22	3-5-6-4		Brown SILT, little mf SAND, trace CLAY (moist, stiff)		11
3									
4	3	4.0	6.0	SS/19	3-3-2-4		Brown SILT, little mf SAND, trace CLAY (wet, medium stiff)		5
5									
6	4	6.0	8.0	SS/19	4-3-3-4		Same as above (wet, medium stiff)		6
7									
8	5	8.0	10.0	SS/22	3-5-5-5		Brown SILT, trace mf SAND (wet, stiff)		10
9									
10									
11									
12									
13									
14	6	13.5	15.0	SS/20	2-2-2-2		Grey CLAY, some SILT (wet, medium stiff)		4
15									
16									
17									
18									
19	7	18.5	20.0	SS/16	WH-WH-6		Grey SILT, little mf GRAVEL, little cmf SAND, trace CLAY (wet medium stiff)		6
20									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

PP=Pocket Penetrameter Results in tsf

**Remarks:**



**CME**  
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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-352</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %		
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%			
20	8	23.5	24.4	SS/9	60-100/3"				100+		
21											
22											
23											
24										Grey ROCK fragments, little cmf GRAVEL, trace cmf SAND (wet)	
25										Auger refusal at 24.4'	
26										Bottom of Boring at 24.4'	
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
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42											
43											
44											
45											

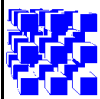
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-390	<b>Page No.</b> 1 of 2	<b>Report No.</b> 28062B-01-0523-R1	
<b>Project Name:</b> Micron Campus, Clay, New York					<b>Date Started</b>	05/02/23		
<b>Client:</b> Ramboll					<b>Date Finished</b>	05/02/23		
<b>Location:</b> See Exploration Location Plan					<b>Surface Elev.</b>	392.8'		
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>				
<b>Driller:</b> G. Richards		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>	
<b>Driller:</b> C. O'Hara		<b>Casing Hammer:</b>		05/02/23	While Drilling	8.9	13.5	
<b>Inspector:</b>		<b>Other:</b>		05/02/23	Before Casing Removed	12.1	23.4	
<b>Drill Rig:</b> CME 55		<b>Soil Sampler:</b> 2" OD Split Barrel		05/02/23	After Casing Removed	none noted	out	
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		05/02/23	After Casing Removed	caved @	out	
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.						
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>				
<b>Depth Scale (Feet)</b>	<b>Sample No.</b>	<b>Sample Depth (Ft.)</b> From To		<b>Type / Sample Rec. (in.)</b>	<b>Blows on Sampler Per 6 Inches</b>	<b>Depth of Change (Ft.)</b>	c - coarse m - medium f - fine and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	<b>SPT "N" or RQD %</b>
0	1A	0.0	0.5	SS/14	WH-1-1-2	---	Topsoil and Organic Matter (moist)	2
1	1B	0.5	2.0				Brown SILT, trace mf SAND, trace ORGANIC Material (moist, soft)	
2	2	2.0	4.0	SS/15	3-4-3-4		Brown SILT, trace mf SAND, trace CLAY (moist, medium stiff)	7
3								
4	3	4.0	6.0	SS/24	4-5-6-6		Brown SILT, trace mf SAND, trace CLAY, trace ROOTS (moist, stiff)	11
5								
6	4	6.0	8.0	SS/19	4-4-6-5		Brown SILT, trace mf SAND, trace CLAY (moist, stiff)	10
7								
8	5	8.0	10.0	SS/24	5-8-8-7		Similar as above (wet, very stiff)	16
9								
10								
11								
12								
13								
14	6A	13.5	14.5	SS/18	3-1-3	---	Similar soil as above (wet, medium stiff)	4
14	6B	14.5	15.0				Grey cmf SAND and SILT, little mf GRAVEL, trace CLAY (wet, loose)	
15								
16								
17								
18								
19	7	18.5	20.0	SS/10	6-10-6		Dark Grey cmf SAND, little SILT, little mf GRAVEL (wet, medium compact)	16
20								

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-390</b>
<b>Page No.</b>	2 of 2
<b>Report No.</b>	28062B-01-0523-R1


**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %		
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%			
20	8	23.4	23.6	SS/1	100/2"				100+		
21											
22											
23											
24										Grey ROCK chips & fragments (wet) Bottom of Boring at 23.6'	
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

 <b>CME Associates, Inc.</b> 6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522		<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>			<b>Boring No.</b> B-392 <b>Page No.</b> 1 of 2 <b>Report No.</b> 28062B-01-0523-R1						
<b>Project Name:</b> Micron Campus, Clay, New York		<b>Date Started:</b> 04/27/23			<b>Date Finished:</b> 04/28/23						
<b>Client:</b> Ramboll		<b>Surface Elev.:</b> 393.5'									
<b>Location:</b> See Exploration Location Plan											
<b>METHODS OF INVESTIGATION</b>				<b>GROUNDWATER OBSERVATIONS</b>							
<b>Driller:</b> G. Richard		<b>Casing:</b> 3 1/4" ID H.S.A.		<b>Date</b>		<b>Time</b>		<b>Depth (Ft.)</b>		<b>Casing At (Ft.)</b>	
<b>Driller:</b> C. O'Hara		<b>Casing Hammer:</b>		04/27/23		While Drilling		1.2		13.5	
<b>Inspector:</b> A. Sharma, E.I.T.		<b>Other:</b>		04/28/23		Before Casing Removed		5.4		23.5	
<b>Drill Rig:</b> CME 55		<b>Soil Sampler:</b> 2" OD Split Barrel		04/28/23		After Casing Removed		3.6		out	
<b>Type:</b> ATV		<b>Hammer Wt:</b> 140 lbs.		04/28/23		After Casing Removed		caved @ 6.5		out	
<b>Rod Size:</b> AWJ		<b>Hammer Fall:</b> 30 in.									
<b>LOG OF BORING SAMPLES</b>						<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%		SPT "N" or RQD %
0	1A	0.0	0.5	SS/11	WH-WH-2-2	---	Topsoil and Organic Matter (moist)				2
1	1B	0.5	2.0				Brown SILT, trace fine SAND, trace CLAY (moist, soft)				
2	2	2.0	4.0	SS/20	4-4-3-4		Brown SILT, trace CLAY (wet, medium stiff)				7
3											
4	3	4.0	6.0	SS/24	2-2-11-10		Brown SILT, some cmf SAND, trace CLAY (wet, stiff)				13
5											
6	4	6.0	8.0	SS/24	4-4-4-4		Brown SILT, trace CLAY (wet, stiff)				8
7											
8	5	8.0	10.0	SS/24	2-2-2-2		Grey/Brown SILT and CLAY (wet, medium stiff)				4
9											
10											
11											
12											
13											
14	6	13.5	15.0	SS/13	11-11-9	---	Dark Grey cmf GRAVEL and cmf SAND, trace SILT, trace ROCK fragments (wet, medium compact)				20
15											
16											
17											
18											
19	7	18.5	20.0	SS/18	17-51-61		Dark Grey mf GRAVEL, little cmf SAND, trace SILT, trace ROCK fragments (wet, very compact) <i>Augered hard at 22.4'</i>				112
20											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**



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**SUBSURFACE EXPLORATION  
TEST BORING LOG**

<b>Boring No.</b>	<b>B-392</b>
<b>Page No.</b>	2 of 2
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**LOG OF BORING SAMPLES**

**VISUAL CLASSIFICATION OF MATERIAL**

Depth Scale (Feet)	Sample No.	Sample Depth (Ft.)		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	VISUAL CLASSIFICATION OF MATERIAL		SPT "N" or RQD %
		From	To				c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	
20	8	23.5	24.0	SS/6	100/6"		Grey ROCK chips, fragments & flour (wet)	100+	
21									
22									
23									
24									
25									
26									
27									
28									
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34									
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38									
39									
40									
41									
42									
43									
44									
45									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:**

## GENERAL INFORMATION & KEY TO TEST BORING LOGS

The **Subsurface Exploration – Test Boring Logs** produced by **CME Associates, Inc.** (CME) present observations and mechanical data collected by the CME Drill Crew while at the site, supplemented, at times, by classification of the materials removed from the borings determined through visual identification by technicians in the laboratory. It is cautioned that the materials removed from the borings represent only a fraction of the total volume of the deposits at the site and may not necessarily be representative of the subsurface conditions between adjacent borings or between the sampled intervals. The data presented on the Exploration Logs together with the recovered samples will provide a basis for evaluating the character of the subsurface conditions relative to the proposed construction. The evaluation must consider all the recorded details and their significance relative to each other. Often, analyses of standard boring data indicate the need for additional testing and sampling procedures to more accurately evaluate the subsurface conditions. Any evaluations of the contents of CME's report and the recovered samples must be performed by Licensed Professionals having experience in Soil Mechanics, Geological Sciences and Geotechnical Engineering. The information presented in this Key defines some of the methods, procedures and terms used on the CME Exploration Logs to describe the conditions encountered. Refer to the Log on page 4 for key number.

### Key No.

### Description

1. The figures in the **DEPTH SCALE** column define the vertical scale of the Boring Log.
2. The **SAMPLE NO.** is used for identification on the sample containers and in the Laboratory Test Report or Summary.
3. The **SAMPLE DEPTH** column gives the depth range from which a sample was recovered.
4. The **TYPE / SAMPLE RECOVERY** column is used to signify the various types of samples. "SS is Split Spoon, "U" is Undisturbed Tube, and "C" is Rock Core. For soil and rock samples, the recovered length of the sample is recorded in inches.
5. **BLOWS ON SAMPLER** – This column shows the results of the "Standard Penetration Test (SPT) ASTM D1586", recording the number of blows required to drive a 2-inch outside diameter (O.D.) split spoon sampler into the ground beneath the casing. The number of blows required for each six inches of penetration is recorded. The total number of blows required for the 6-inch to 18-inch interval is summarized in the **SPT "N"** column and represents the "Standard Penetration Number". The outside diameter of the sampler, the hammer weight and the length of drop are noted in the **Methods of Investigation** portion of the log. A "WH" or "WR" in this column indicates that the sample spoon advanced a 6-inch interval under the **Weight of Hammer + Rod** or **Weight of Rod**, respectively. If a rock core sample is taken, the core bit size designation is given here.
6. The **DEPTH OF CHANGE** column designates the depth (in feet) that the driller noted a compactness or stratum change. In soft materials or soil strata exhibiting a consistent relative density, it is difficult for the driller to determine the exact change from one stratum to the next. In addition, a grading or gradual change may exist. In such cases the depth noted is approximate or estimated only and may be represented by a dashed line. When continuous split spoon sampling is not employed, or an interval of several feet exists between samplings, the Depth of Change may not be indicated at all.
7. **VISUAL CLASSIFICATION OF MATERIAL** – Soil materials sampled and recovered are described by the Driller or Geotechnical Representative on the original field log. Notes of the Drillers observations are also placed in this column. Recovered samples may also be visually classified by a Geologist, Engineer, or Soil Technician. Visual soil classifications are made using a modified **Burmister System** as practiced by CME and as generally described in this Key and abbreviated on the Test Boring Log. This modified **Burmister System** is a type of visual-manual textural classification estimated by the Driller, Geologist, Engineer, or Technician on the basis of weight-fraction of the recovered material and estimated plasticity, among other characteristics. See Table 1 "**Classification of Materials**". The description of the relative compactness or consistency is based upon the standard penetration number as defined in Table 2. The description of the recovered sample moisture condition is described as dry, moist, wet, or saturated. Water used to advance the boring may affect the moisture content of the recovered sample. Special terms may be used to describe recovered materials in greater detail, such terms are listed in ASTM D653. When sampling gravelly soils with a standard two-inch O.D. Split Spoon, the true percentage of gravel is often not recovered due to the relatively small sampler diameter. The presence of boulders, cobbles, and large gravel is sometimes, but not necessarily, detected by observation of the casing advancement and sampler blows and/or through the "action" of the drill rig, sampler and/or casing as reported by the Driller.

The description of **Rock** is based upon the recovered rock core. Terms frequently used in the description are included in Tables 3, 4 and 5. The length of core run is defined as length of penetration between retrievals of the core barrel from the bore hole, expressed in inches. The core recovery expresses the length of core recovered from the core barrel per core run, in percent. The size core barrel used is noted in Column 5. An "N" size core, being larger in diameter than "A" size core, often produces better recovery, and is frequently utilized where accurate information regarding the geologic conditions and engineering properties is needed. An estimate of in-situ rock quality is provided by a modified core recovery ratio known as the "**Rock Quality Designation**" (**RQD**). This ratio is determined by considering only pieces of core that are at least 4 inches long and are hard and sound. Breaks obviously caused by drilling are ignored. The percentage ratio between the total length of such core recovered and the length of core drilled on a given run is the **RQD**. Table 4 indicates in-situ rock quality as related to the **RQD**.



8. The SPT “N” or RQD is given in this column as applicable to the specific sample taken. In Very Compact coarse-grained soils and in Hard fine-grained soils the N-value may be indicated as 50+ or 100+. This typically means that the blow count was achieved prior to driving the sampler the entire 6-inch interval or the sampler refused further penetration. For an “N” size rock core, the RQD is reported here, expressed in percent (%).
9. **GROUNDWATER OBSERVATIONS** and timing noted by the Drill Crew are shown in this section. It is important to realize that the reliability of the water level observations depend upon the soil type (e.g. water does not readily stabilize in a hole through fine grained soils), and that drill water used to advance the boring may have influenced the observations. Groundwater levels typically fluctuate seasonally so those noted on the log are only representative of that exhibited during the period of time noted on the log. One or more perched or trapped water levels may exist in the ground seasonally. All the available resources and data should be evaluated. If definite conclusions cannot be made, it is often prudent to examine the conditions more thoroughly through test pit excavations or through groundwater observation well installations.
10. **METHODS of INVESTIGATION** provides pertinent information regarding the identity of the Drill Crew members, inspector (if any), drill rig make and model, drill rig mount vehicle, casing and type of advancement, soil and rock sampling tools and appurtenances used in the installation of the Test Boring.

<b>TABLE 1 - CLASSIFICATION OF MATERIALS</b>	
<b>GROUP</b>	<b>COARSE GRAINED SOILS TEXTURAL SIZES</b>
BOULDERS	larger than 12" diameter
COBBLES	12" diameter to 3" sieve
GRAVEL	3" - coarse - 1" - medium - 1/2" - fine - #4 sieve
SAND	#4 - coarse - #10 - medium - #40 - fine - #200 sieve
<b>GROUP</b>	<b>FINE GRAINED SOILS SIZE (PLASTICITY*)</b>
SILT	#200 sieve (0.074mm) to 0.005mm size (see below *)
CLAY	0.005mm size to 0.001 mm size (see below *)
<b>GROUP</b>	<b>ORGANIC SOILS, PEAT, MUCK, MARL</b>
ORGANIC	Based on smell, visual-manual and laboratory testing

<b>ABBREVIATIONS</b>	<b>TERM</b>	<b>ESTIMATED PERCENT OF TOTAL SAMPLE BY WEIGHT</b>
<b>f</b> - fine	and	35 to 50%
<b>m</b> - medium	some	20 to 35%
<b>c</b> - coarse	little	10 to 20%
	trace	0 to 10%

<b>*PLASTICITY DESCRIPTIONS and INDICATOR FIELD TESTS</b>			
<b>TERM</b>	<b>PLASTICITY INDEX</b>	<b>DRY STRENGTH TEST</b>	
		<b>INDICATION</b>	<b>FIELD TEST RESULT</b>
non-plastic	0 - 3	Very low	falls apart easily
slightly plastic	4 - 15	Slight	easily crushed by fingers
plastic	15 - 30	Medium	difficult to crush
highly plastic	31 or more	High	impossible to crush with fingers
Other Field Tests include: Dilatancy, Thread and Shine Testing			

**TABLE 2 - DESCRIPTION OF SOIL COMPACTNESS OR CONSISTENCY based on SPT "N"\***

Primary Soil Type	Descriptive Term of Compactness	Range of Standard Penetration Resistance (N)
<b>COARSE GRAINED SOILS</b>	Very Loose	less than 4 blows per foot
(More than half of Material is larger than No. 200 sieve size)	Loose	4 to 10
	Medium Compact	10 to 30
	Compact	30 to 50
	Very Compact	Greater than 50
<b>FINE GRAINED SOILS</b>	<b>Descriptive Term of Consistency</b>	<b>Range of Standard Penetration Resistance (N)</b>
(More than half of material is smaller than No. 200 sieve size)	Very Soft	less than 2 blows per foot
	Soft	2 to 4
	Medium Stiff	4 to 8
	Stiff	8 to 15
	Very Stiff	15 to 30
	Hard	Greater than 30

\*The number of blows of 140-pound weight falling 30 inches to drive a 2-inch O.D., 1-3/8 inch I.D. sampler 12 inches is defined as the Standard Penetration Resistance, designated "N".

**TABLE 3 - ROCK CLASSIFICATION TERMS**


Rock Classification Terms	Field Test or Meaning of Term
<b>Hardness</b>	Soft Scatched by fingernail. Crumbles under firm blows with a geologic pick.
	Medium Soft Shallow indentations (1 to 3 mm) can be made by firm blows of a geologic pick. Can be peeled with a pocketknife with difficulty.
	Medium Hard Scatched distinctly by penknife or steel nail. Can't be peeled or scraped with knife.
	Hard Scatched with difficulty by penknife or steel nail. Requires more than one blow with a geologic hammer to break it
	Very Hard Cannot be scratched by penknife or steel nail. Breaks only by repeated heavy blows with a geologic hammer.
<b>Bedding</b>  (Divisional planes and/or surfaces separating it from layers above and below)	Thinly Laminated less than 1/8 <sup>th</sup> inch
	Laminated 1/8 <sup>th</sup> to 1 inch
	Thinly Bedded 1 inch to 4 inches
	Medium Bedded 4 inches to 12 inches
	Thickly Bedded 12 inches to 48 inches
	Massive greater than 48 inches

**TABLE 4  
Relation of Rock Quality Designation (RQD) and in-situ Rock Quality**

RQD %	Rock Quality Term Used
90 to 100	Excellent
75 to 90	Good
50 to 75	Fair
25 to 50	Poor
0 to 25	Very Poor

**TABLE 5 – BEDROCK WEATHERING CLASSIFICATION**

Classification	Diagnostic Features
Fresh	No visible sign of decomposition or discoloration. Rings under hammer impact.
Slightly Weathered	Slight discoloration inwards from open fractures, otherwise similar to Fresh.
Moderately Weathered	Discoloration throughout. Strength somewhat less than fresh rock but cores cannot be broken by hand or scraped with knife. Texture observed.
Highly Weathered	Most minerals somewhat decomposed. Specimens can be broken by hand with effort or shaved with knife. Core stones present in rock mass. Texture becoming indistinct but fabric preserved.
Completely Weathered	Minerals decomposed to soil, but fabric and structure preserved (e.g. Saprolite). Specimens easily crumbled or penetrated.
Residual Soil	Advanced state of decomposition resulting in plastic soils. Rock fabric and structure completely destroyed. Large volume change.

 <b>CME</b> Associates, Inc.	6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522	<b>SUBSURFACE EXPLORATION TEST BORING LOG</b>		<b>Boring No.</b>	<b>B-2</b>				
				<b>Page No.</b>	1 of 1				
			<b>Report No.</b>						
	<b>Project Name:</b>		<b>Date Started</b>						
<b>Client:</b>		<b>Date Finished</b>							
<b>Location:</b>		<b>Surface Elev.</b>							
<b>METHODS OF INVESTIGATION</b>			<b>GROUNDWATER OBSERVATIONS</b>						
<b>Driller:</b>	<b>10</b>	<b>Casing:</b>	<b>10</b>	<b>Date</b>	<b>Time</b>	<b>Depth (Ft.)</b>	<b>Casing At (Ft.)</b>		
<b>Driller:</b>		<b>Casing Hammer:</b>			While Drilling	<b>9</b>	<b>9</b>		
<b>Inspector:</b>		<b>Other:</b>			Before Casing Removed				
<b>Drill Rig:</b>		<b>Soil Sampler:</b>			After Casing Removed				
<b>Type:</b>		<b>Hammer Wt:</b>			After Casing Removed				
<b>Rod Size:</b>		<b>Hammer Fall:</b>							
<b>LOG OF BORING SAMPLES</b>				<b>VISUAL CLASSIFICATION OF MATERIAL</b>					
Depth Scale (Feet)	Sample No.	Sample Depth (Ft.) From To		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>		<b>7</b>	<b>8</b>

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: